Articles dans des revues internationales ou nationales répertoriées, avec comité de lecture [ACL]

2023

Y. GUO, **D.BOYER, F. REVERET, F.CISNETTI, G. CHADEYRON**, F. LEROUX, Y. FENG
An Unlimited Color Palette from Perylene Derivative Molecules Dispersed within Hybrids
ACS Applied Optical Materials, 1, 1 (2023) 382–394. https://doi.org/10.1021/acsaom.2c00076

F. KANG, Y. DU, Z. YANG, **P. BOUTINAUD**, M. WUBS, J. XU, H. OU, D. LI, K. ZHENG, A. T. TAREKEGNE, G. SUN, X. XU, S. XIAO
Spectral tuning, stabilities under external exposures, and spontaneous enhancement of emission intensity in grown-into-glass all-inorganic metal halide perovskite nanocrystals
Laser & Photonic Reviews, 17 (2023) 2200166. doi.org/10.1002/lpor.202200166

C. LIU, D. LI, **P. BOUTINAUD**, S. TAN, J. XU, Y. DU, Y. HOU, C. ZHANG, Q. ZHOU, F. KANG
Tailoring electromagnetic responses in terahertz metasurface by breaking the structural symmetry in T-shaped resonators
Advanced Photonic Research (2023) 2200356. doi.org/10.1002/adpr.202200356

P. BOUTINAUD
Luminescence-structure relationships in solids doped with Bi^{3+}
Physical Chemistry Chemical Physics, 25 (2023) 11027-11054. doi.org/10.1039/D3CP00289F

M. KAMINSKI, S. MAHLIK, **A. BARROS, P. BOUTINAUD**
Uncovering the origin of radiationless losses in CuLaO2 by rationalizing the action of temperature and pressure on the luminescence
Physical Chemistry Chemical Physics, 25 (2023) 19713-19718. doi.org/10.1039/D3CP01427D

A. MARTIN, **A. POTDEVIN**, **F. RÉVERET**, E. CENTENO, R. SMAALI, F. OMEIS, D. RIASSETTO, E. KACHAN, Y. JOURLIN, **G. CHADEYRON**, M. LANGLET
Study of the Photoluminescence Enhancement Observed in ZnO Nanowire Gratings Optimally Grown by the Hydrothermal Method.
Advanced Optical Materials (2023) 2300695. https://doi.org/10.1002/adom.202300695

L. MARICHEZ, **G. CHADEYRON**, **D. ZAMBON**, **F. RÉVERET**, **A. POTDEVIN**, **D. BOYER**, V. GATÉ, I. VERRIER, D. JAMON, E. GAMET, Y. JOURLIN
Doped sol-gel based microstructured layers to improve the light emission of luminescent coatings
Journal of Alloys Compounds, 957 (2023) 170408. https://doi.org/10.1016/j.jallcom.2023.170408

L. LOPEZ, P. PICHON, P. LOISEAU, B. VIANA, **R. MAHIOU**, F. DRUON, P. GEORGES, F. BALEMBOIS
Ce: LYSO, from scintillator to solid-state lighting as a blue luminescent concentrator
Scientific Reports, 13 (2023) 7199. https://doi.org/10.1038/s41598-023-32689-z

A. TRAN, R. VALLEIX, M. MATIC, M. SLEIMAN, **F. CISNETTI, D. BOYER**
Environmental friendly InP quantum dots as visible-light catalyst for water treatment
Environmental Science: Nano (2023) 1749-1753. https://doi.org/10.1039/D3EN00158J

A. SATHYANARAYANA, F. REVERET, L. JOUFFRET**, D. BOYER, G. CHADEYRON, F. CISNETTI**
Polymeric copper(I)-NHC complexes with bulky bidentate (N^C) ligands: synthesis and solid-state luminescence
Dalton Transactions, 52 (2023) 13677-13688.

A. TRAN, M. LEROUX, C. MICHELIN, **F. REVERET**, **D. BOYER**, **F. CISNETTI**
Carboxylate BODIPY integrated in MOF-5: easy preparation and solid-state luminescence
Journal of Materials Chemistry C, 11 (2023) 14896-14905.

G. ZERBIB, D. BOYER, G. CHADEYRON, F. RÉVERET, F. LEROUX
Efficient dispersion of organic fluorophores by size matching with a di-functionalized spacer interleaved into layered double hydroxide
ACS Applied Optical Materials, 1,9 (2023) 1535-1545.

O. JAMAL EDDINE, A. BOUKHRISS, M. EL BOUCHTI, O. CHERKAOUI, **R. MAHIOU**, H. HANNACHE, **D. BOYER**, S. GMOUH
Effect of fluorescein concentration on morphological, structural, and photoluminescence properties of glass fibers coated with organic-inorganic hybrid films via sol-gel
Journal of Sol-Gel Science and Technology, 108 (2023) 559-573.

2022

P. LEGENTIL, F. LEROUX, **R. MAHIOU**, S. THERIAS, **D. BOYER**, **F. REVERET**, L. NAUTON, V. THERY, **R. VALLEIX**, **G. CHADEYRON**
Elucidating the effect of the spacer and the luminescence mechanism of SRB hosted in a LDH interlayer
Materials Advances, 3 (2022) 1200-1211. https://doi.org/10.1039/D1MA00939G

P. BOUTINAUD, **A. BARROS**, F. KANG
Luminescence depreciation in $ScVO_4:Bi^{3+}$ upon irradiation in the Bi^{3+}-related absorption bands
Journal of Luminescence, 248 (2022) 118941. https://doi.org/10.1016/j.jlumin.2022.118941

Y. GUO, **D. BOYER**, **F. CISNETTI**, **A. BARROS**, **F. REVERET**, Y. FENG, **G. CHADEYRON**, F. LEROUX
Perylene diimide derivative dispersed in LDH as a new efficient red-emitting phosphor for LED applications
Journal of Materials Chemistry C, 10 (2022) 9989-10000. DOI: 10.1039/d2tc01189a

M. WUJCZYK, S. TARGONSKA, **P. BOUTINAUD**, J.M. REEKS, A. WATRAS, R.J. WIGLUSZ
Emission enhancement and energy transfers in $YV_{0.5}P_{0.5}O_4$ nanoparticles co-doped with Eu^{3+} and Bi^{3+} ions
Inorganic Chemistry, 61 (2022) 12237-12248. https://doi.org/10.1021/acs.inorgchem.2c01465

N. AMARA, **A. MARTIN**, **A. POTDEVIN**, **F. REVERET**, D. RIASSETTO**, G. CHADEYRON**, M. LANGLET
Nanostructuration of YAG:Ce Coatings by ZnO Nanowires: A Smart Way to Enhance Light Extraction Efficiency
Nanomaterials, 12 (2022) 2568. https://doi.org/10.3390/nano12152568

J. CATHALAN, M. SALAÜN, P. GAFFURI, **A. POTDEVIN, F. REVERET**, A. IBANEZ, **G. CHADEYRON**, I. GAUTIER-LUNEAU
Optimization of the Pechini-derived synthesis of rare-earth free aluminum borate phosphors presenting tunable white emission
Journal of Materials Science (2022). https://doi.org/10.1007/s10853-022-07619-5

Y. GUO, **D.BOYER, F. REVERET, F.CISNETTI, G. CHADEYRON, F. LEROUX**, AND Y. FENG
An Unlimited Color Palette from Perylene Derivative Molecules Dispersed within Hybrids
ACS Appl. Opt. Mater. 2022). https://doi.org/10.1021/acsaom.2c00076

F. KANG, Y. DU, Z. YANG, **P. BOUTINAUD**, M. WUBS, J. XU, H. OU, D. LI, K. ZHENG, A. T. TAREKEGNE, G. SUN, X. XU, S. XIAO
Spectral tuning, stabilities under external exposures, and spontaneous enhancement of emission intensity in grown-into-glass all-inorganic metal halide perovskite nanocrystals
Laser & Photonics Reviews (2022), 2200166. DOI: 10.1002/lpor.202200166

2021

M. KHAYWAH, A. POTDEVIN*, F. REVERET, R. MAHIOU, Y. OUERDANE, A. DESERT, S. PAROLA, G. CHADEYRON, E. CENTENO, R. SMAALI, A. MOREAU*
Large and versatile plasmonic enhancement of photoluminescence using colloidal metallic nanocubes.
J. Phys. Chem. C, 2021, 125, 7780-7790.

A. MBAREK*, G. CHADEYRON, D. ZAMBON
Site selective substitution of Eu^{3+} and its effects on structural and luminescent properties of monoclinic YP_5O_{14} pentaphosphate. *Optical Materials*, 2021, **113**, 110899.

S. BORDJ, H. SATHA, A. BARROS, D. ZAMBON, J.-P. JOUART, M. DIAF, R. MAHIOU*
Spectroscopic characterization by up conversion of Ho^{3+}/Yb^{3+} codoped CdF_2 single crystal
Optical Materials, 2021, **118**, 111249.

O. J. EDDINE, D. BOYER, M. EL BOUCHTI, A. BOUKHRISS, O. CHERKAOUI, R. MAHIOU, H. HANNACHE, S. GMOUH*
Effect of Eu^{3+} and Tb^{3+} ions concentration on the mechanical, structural, and photoluminescence properties of phosphate glass fibers. *Optical Materials*, 2021, 122, 111664.

M. CIESLIKIEWICZ-BOUET*, H. EL HAMZAOUI*, Y. OUERDANE, R. MAHIOU, G. CHADEYRON, L. BIGOT, K. DELPLACE-BAUDELLE, R. HABERT, S. PLUS, A. CASSEZ, G. BOUWMANS, M. BOUAZAOUI, A. MORANA, A. BOUKENTER, S. GIRARD, B. CAPOEN
Investigation of the incorporation of Cerium ions in MCVD-Silica glass preforms for remote optical fiber radiation dosimetry. *Sensors*, 2021, **21**, 3362.

M. DERBEL, A. MBAREK*, G. CHADEYRON
Novel reddish-orange emitting ultraphosphate $CaP_4O_{11}:Eu^{3+}$ phosphor: Synthesis and photoluminescence properties.
Journal of Photochemistry & Photobiology, A: Chemistry, 2021, **409**, 113146.

A. CORDONNIER, D. BOYER, S. BESSE, R. VALLEIX, R. MAHIOU, M. QUINTANA, A. BRIAT, M. BENBAKKAR, F. PENAULT-LLORCA, A. MAISONIAL-BESSET, B. MAUNIT, M. VIVIER, S. TARRIT, T. WITKOWSKI, L. MAZUEL, F. DEGOUL, E. MIOT-NOIRAULT, J.-M. CHEZAL*
Synthesis and in vitro preliminary evaluation of prostate-specific membrane antigen targeted upconversion nanoparticles as a first step towards radio/fluorescence-guided surgery of prostate cancer.
Journal of Materials Chemistry B, 2021, 9, 7423-7434.

A. S. MESSALTI, M. EL-GHOZZI, D. ZAMBON*, R. MAHIOU, Z. SETIFI
Investigating photoluminescence properties of Ca-doped ZnS nanoparticles prepared via hydrothermal method.
Journal of Luminescence, 2021, **238**, 118227.

R. VALLEIX, Q. ZHANG, D. BOYER*, P. BOUTINAUD, G. CHADEYRON, Y. FENG, H. OKUNO, F. REVERET, H. HINTZE-BRUENING, F. LEROUX*
A first wide-open LDH structure hosting InP/ZnS QDs: A new route toward efficient and photostable red-emitting phosphor. *Advanced Materials*, 2021, 33, 2103411.

Q. ZHANG, Y. FENG, R. VALLEIX, G. CHADEYRON, D. BOYER*, F. LEROUX
Co-assembled photoactive organic molecules into layered double hydroxide as fluorescent fillers for silicone films.
Materials Today Communications, 2021, **28**, 102479.

F. KANG, G. SUN, P. BOUTINAUD, H. WU, F.X. MA, J. LU, J. GAN, H. BIAN, F. GAO, S. XIAO*
Recent advances and prospects of persistent luminescent materials as inner secondary self-luminous light source for photocatalytic applications. *Chemical Engineering Journal*, 2021, 43, 126099.

A. MBAREK*, M. DERBEL, G. CHADEYRON
VUV-UV photoluminescence, site occupancy and thermal stability of blue-emitting $K_2CaP_2O_7:Eu^{2+}$ UV-LED phosphor.
Journal of Materials Science- Materials in Electronics, 2021, **32**, 21021–21031.

R. VALLEIX, F. CISNETTI, H. OKUNO, P. BOUTINAUD, G. CHADEYRON, D. BOYER*
Size-controlled indium phosphide quantum dots for bright and tunable light emission by simple hindered diamine addition. *ACS Applied Nano Materials*, 2021, **4**, 11105–11114.

A. CANTARANO, D. TESTEMALE, E. HOMEYER, H. OKUNO, A. POTDEVIN, C. DUJARDIN, A. IBANEZ, G. DANTELLE
Drastic Ce^{3+} insertion enhancement in YAG garnet nanocrystals through a solvothermal route.
Frontiers in Materials, 2021, **8**, 768087.

2020

J. NYALOSASO, A. POTDEVIN*, F. REVERET, R. MAHIOU, P. DISSEIX, G. CHADEYRON
Enhancement of light extraction in $Y_3Al_5O_{12}:Tb^{3+}$ thin films through nanopatterning.
Chemical Engineering Science, 2020, **213**, 115416-115426.

V. KUMAR, A. POTDEVIN, P. BOUTINAUD, D. BOYER*
HF-free synthesis of K_2SiF_6 and $BaSiF_6$ nanoparticles by thermal decomposition.
Materials Letters, 2020, **261**, 127123-127125.

Y. CHEROURA, Z. SMARA, A. POTDEVIN*, D. BOYER, A. CHAFA, O. ZIANE, R. MAHIOU*
Judd-Ofelt and quantum cutting analysis of Eu^{3+} or Pr^{3+} doped β-$NaGdF_4$ nanorods obtained by rapid coprecipitation method.
Materials Research Bulletin, 2020, **125**, 110809-110819.

N. AMARA, A. MARTIN, A. POTDEVIN*, D. RIASSETTO, M. MESSAOUD, F. RÉVERET, G. CHADEYRON, J. BOUAZIZ, M. LANGLET
ZnO nanowires/YAG:Ce functional heterostructure coatings with tunable optical properties.
Journal of Alloys and Compounds, 2020, **842**, 155708.

Z. SMARA, Y. CHEROURA, D. BOYER*, A. POTDEVIN, A. CHAFA, O. ZIANE, R. MAHIOU*
Energy transfer and luminescent properties of Eu^{3+}, Tb^{3+}, Eu^{3+}-$Yb^{3+}$and Tb^{3+}-Yb^{3+} doped α-$NaYF_4$ nanophosphors prepared by coprecipitation route.
Optical Materials, 2020, **104**, 109932.

M. SERAICHE*, L.GUERBOUS*, R. MAHIOU, A. POTDEVIN
Synthesis of $GdBO_3:Eu^{3+}$ nanophosphors via acetylacetone assisted aqueous sol–gel route: Effect of some synthesis parameters.
Optical Materials, 2020, **109**, 110339.

A. CANTARANO, D. TESTEMALE, S. D. S. NOBRE, A. POTDEVIN, R. BRUYERE, A. BARBARA, J.-L. HAZEMANN, A. IBANEZ, G. DANTELLE*
Twofold advantage of gas bubbling for the advanced solvothermal preparation of efficient YAG:Ce nanophosphors.
Journal of Materials Chemistry C, 2020, **8**, 9382-9390.

P. GAFFURI, M. SALAUN*, I. GAUTIER-LUNEAU, G. CHADEYRON, A. POTDEVIN, L. RAPENNE, E. APPERT, V. CONSONNI, A. IBANEZ
Rare-earth-free zinc aluminium borate white phosphors for LED lighting.
Journal of Materials Chemistry C, 2020, **8**, 11839-11849.

P. BOUTINAUD*, M. G. BRIK
The optical properties of Bi^{3+} and Sb^{3+} in $YNbTiO_6$ analysed by means of DOS and semi-empirical calculations.
Journal of Materials Chemistry C, 2020, **8**, 2086-2093.

M. COLMONT*, M. HUVE, P. BOUTINAUD, C. LATOUCHE, A. ZADOIA, F. MASSUYEAU, S. JOBIC
Origin of luminescence in La_2MoO_6 and La_2MoO_9 and their Bi^{3+}-doped variants.
Inorganic Chemistry, 2020, **59**, 3215-3220.

P. BOUTINAUD
On the spectroscopy of Bi^{3+} in d^{10} post-transition metal oxides.
Journal of Luminescence, 2020, **223**, 117219.

P. JONGCHANSITTO, D. BOYER, I. PREECHAWUTTIPONG, X. BALANDRAUD*
Using mechanoluminescent materials to investigate contact stresses in granular media.
Experimental Mechanics, 2020, **60**, 51-64.

P. LEGENTIL, F. LEROUX*, S. THERIAS, D. BOYER, G. CHADEYRON*
Sulforhodamine B-LDH composite as a rare-earth-free red-emitting phosphor for LED lighting.
Journal of Materials Chemistry C, 2020, **8**, 11906-11915.

M WUJCZYK, A WATRAS, P BOUTINAUD, M BETTINELLI, S TARGONSKA, J HÖLSÄ, RAFAL J WIGLUSZ
Emission Quenching and First Evidence of Tb^{3+}-to-As^{5+} Charge Transfer in Terbium(III) Ion-Doped $YV_xAs_{1-x}O_4$ Solid-State Solution
Journal of Physical Chemistry C, 2020, 124 (31), 17364-17371

F. KANG, G. SUN, P. BOUTINAUD, H. WU, F.X. MA, J. LU, J. GAN, H. BIAN, F. GAO, S. XIAO
Recent advances and prospects of persistent luminescent materials as inner secondary self-luminous light source for photocatalytic applications
Chemical Engineering Journal, 2020, 126099

WAHIDA LTAIEF, AICHA MBAREK, MALIKA El-GHOZZI, HOUCINE NAILI, DANIEL ZAMBON
New solid solution ceramics $Li_xY_{1-y}Eu_y(VO_4)_{1-x}F_{4x}$ ($0 < x \leq 0.1$; $0 < y \leq 0.2$) : Synthesis, structural characterization and luminescence properties
J. Solid State Chem. 284 (2020) 121223.

P. LEGENTIL, G. CHADEYRON, S. THERIAS, N. CHOPIN, D. SIRBU, F. SUZENET, F. LEROUX*
Luminescent N-heterocycles based molecular backbone interleaved within LDH host structure and dispersed into polymer.
Applied Clay Science, 2020, **189**, 105561.

P LEGENTIL, F. LEROUX*, S. THERIAS, D. BOYER, F. REVERET, G. CHADEYRON
Reliability study under thermal and photonic stresses of sulforhodamine B (SRB) confined into layered double hydroxide (LDH).
Applied Clay Science, , Elsevier, 2020, pp.105922

2019

J. Nyalosaso, R. Boonsin, P. Vialat, D. Boyer*, G. Chadeyron, R. Mahiou, F. Leroux
Towards Rare-Earth-Free White Light-Emitting Diode Devices Based on the Combination of Dicyanomethylen and Pyranine as Organic Dyes Supported on Zinc Single-Layered Hydroxide
Beilstein Journal of Nanotechnology, 2019, 10 (1), 760-770.

L. Zammouri, A. Aboulaich*, B. Capoen, M. Bouazaoui, M. Sarakha, M. Stitou, R. Mahiou*
Synthesis of YAG:Ce/ZnO core/shell nanoparticles with enhanced UV-visible and visible light photocatalytic activity and application for the antibiotic removal from aqueous media
Journal of Materials Research, 2019, 25, 1-13.

N. Abdedou, T. Djouama*, M. Chalal, M. Poulain, B. Capoen, R. Mahiou*
Synthesis and characterization of Er^{3+}/Cu^{+}-codoped fluorophosphate glasses
J. Alloys Comp., 2019, 790, 248-256.

P. Boutinaud
Spectroscopic investigations of calcium fluoroapatites doped with Bi^{3+}
Journal of Luminescence, 2019, 205, 237-242

P. Boutinaud
Luminescence of Sb^{3+}in closed shell transition metal oxides
Journal of Luminescence, 2019, 208, 394-401

A. Nadi, D. Boyer, N. Charbonnel, A. Boukhriss, C. Forestier, S. Gmouh
Immobilization of bacteria onto magnetic nanoparticles for the decolorization and degradation of azo dyes
IET Nanobiotechnology, 2019, 13:2, 144-149.

Wafa Hami, Mohamed Daoud, Daniel Zambon, Mohamed Elaatmani, Abdelouahad Zegzouti
Synthesis and characterization of $AgYP_2O_7$ pyrophosphate activated with ions Tb^{3+}, Sm^{3+} and Dy^{3+} ions
Inorg. Chem. Com., 2019, 102, 192-198.

S. Rahmani, C. Mauriello Jimenez, D. Aggad, D. González-Mancebo, M. Ocaña, L. M. A. Ali, C. Nguyen, A. I. Becerro Nieto, N. Francolon, E. Oliveiro, D. Boyer, R. Mahiou , L. Raehm, M. Gary-Bobo, J-O. Durand, C. Charnay*.
Encapsulation of Upconversion Nanoparticles in Periodic Mesoporous Organosilicas
Molecules 2019, 24, 4054

Y. Cheroura*, Z. Smara*, A. Potdevin, D. Boyer, A. Chafa, O. Ziane, R. Mahiou
Rapid synthesis of β-$NaGdF_4$ nanorods doped with Eu^{3+} or Pr^{3+} ions
Soumise en septembre 2019 à Materials Research Bulletin

V. Kumar*, A. Potdevin, P. Boutinaud, D. Boyer
HF-free synthesis of K_2SiF_6 and $BaSiF_6$ nanoparticles by thermal decomposition
Soumise en octobre 2019 à Materials Letters

J. Nyalosaso*, A. Potdevin, F. Réveret, R. Mahiou, P. Disseix, G. Chadeyron
Enhancement of light extraction in $Y_3Al_5O_{12}:Tb^{3+}$ thin films through nanopatterning
Chem. Eng. Sci 2019, https://doi.org/10.1016/j.ces.2019.115416

P. Boutinaud
Rationalization of the Pr^{3+}-to-transition metal charge transfer model: application to the luminescence of Pr^{3+} in titano-niobates
Journal of Luminescence, 2019, 214, 116557

F. Kang, G. Sun, P. Boutinaud, F. Gao, Z. Wang, J. Lu, Y.Y. Li, S. Xiao
Tuning the Bi^{3+}-photoemission color over the entire visible region by manipulating secondary cations modulation in the $ScV_xP_{1-x}O_4:Bi^{3+}$ ($0 \le x \le 1$) solid solution
Journal of Materials Chemistry C, 2019, 32, 9865-9877

P. Jongchansitto, D. Boyer, I. Preechawuttipong, X. Balandraud
Using mechanoluminescent materials to investigate contact stresses in granular media
Experimental Mechanics, https://doi.org/10.1007/s11340-019-00540-0

A Nadi, M. Melloul, A. Boukhriss, E. El Fahime, D. Boyer, H. Hannache and S. Gmouh
Immobilization of *Bacillus licheniformis* using $Fe_3O_4@SiO_2$ nanoparticles for the development of bacterial bioreactor
Oriental Journal of Chemistry, 2019, 35, 854-862.

G. Palácio, D. Boyer, S. Therias, S. H. Pulcinelli, R. Mahiou, G. Chadeyron, C. V. Santilli
Accelerated ultraviolet aging of structural and luminescent properties of the ureasil-polyether hybrid materials U-PEO:Eu^{3+} and U-PPO:Eu^{3+}
Polymer, 2019, 177, 102-110.

2018

W. LTAIEF, A. MBAREK*, M. EL-GHOZZI, H. NAILI, D. ZAMBON
Structural and optical investigations of new fluorophosphates solid solutions $Li_xY_{1-y})Ln_y(PO_4)_{1-x}F_{-4x}$ ($0 < x <= 0.4$; Ln = Eu, Tb) as phosphors for solid-state lighting.
Journal of Alloys and Compounds, 2018, **735**, 29-42.

M. MOUTATAOUIA, D. ZAMBON*, D. BOYER, M. LAMIRE, L. EL AMMARI, R. MAHIOU
Crystallographic and optical properties of Eu^{3+} doped $K_2Na_3P_3O_{10}$ triphosphate.
Journal of Alloys and Compounds, 2018, **748**, 206-215.

R. BOONSIN*, A. BARROS, F. DONAT, D. BOYER, G. CHADEYRON*, R. SCHNEIDER, P. BOUTINAUD, R. MAHIOU
Optical properties and reliability studies of gradient alloyed green emitting $(CdSe)_x(ZnS)_{1-x}$ and red emitting $(CuInS_2)_x(ZnS)_{1-x}$ quantum dots for white light-emitting diodes.
ACS Photonics, 2018, **5**, 462-470.

P. BOUTINAUD
On the luminescence of Bi^{3+} pairs in oxidic compounds.
Journal of Luminescence, 2018, **197**, 228-232.

L. OUAREZ, A. CHELOUCHE*, T. TOUAM, R. MAHIOU, D. DJOUADI, A. POTDEVIN
Au-doped ZnO sol-gel thin films: an experimental investigation on physical and photoluminescence properties
Journal of Luminescence, 2018, **203**, 222-229.

M. AMER, P. BOUTINAUD*
The doping sites in Eu^{2+}-doped $A^{I}B^{II}PO_4$ phosphors and their consequence on the photoluminescence excitation spectra.
Journal of Solid State Chemistry, 2018, **258**, 124-130.

L. ZAMMOURI, A. ABOULAICH*, B. CAPOEN, M. BOUAZAOUI, M. SARAKHA, M. STITOU, R. MAHIOU*
Enhancement under UV–visible and visible light of the ZnO photocatalytic activity for the antibiotic removal from aqueous media using Ce-doped $Lu_3Al_5O_{12}$ nanoparticles.
Materials Research Bulletin, 2018, **106**, 162-169.

N. AL HELOU, H. EL HAMZAOUI, B. CAPOEN, G. BOUWMANS, A. CASSEZ, Y. OUERDANE, A. BOUKENTER, S. GIRARD, G. CHADEYRON, R. MAHIOU, M. BOUAZAOUI
Radioluminescence and Optically Stimulated Luminescence Responses of a Cerium-doped Sol-gel Silica Glass under X-ray Beam Irradiation.
IEEE Transactions on Nuclear Science 2018, 65, (8), 1591-1597.

M.A. HASSAIRI, A. GARRIDO HERNÁNDEZ, M. DAMMAK*, D. ZAMBON, G.CHADEYRON, ~~AND~~ R.MAHIOU
Tuning white upconversion emission in $GdPO_4$:Er/Yb/Tm phosphors.
Journal of Luminescence, 2018, 203, 707-713.

G. PALACIO, S. PULCINELLI, R. MAHIOU, D. BOYER, G. CHADEYRON, C. V.SANTILLI*
Coupling photoluminescence and ionic conduction properties using the different coordination sites of ureasil-polyether hybrid materials.
*ACS Appl. Mater. Interfaces, 2018, **10 (43)**, 37364–37373.*

L. ZAMMOURI, A. ABOULAICH*, B. CAPOEN, M. BOUAZAOUI, M. SARAKHA, M. STITOU, R. MAHIOU*
Synthesis of YAG:Ce/ZnO core/shell nanoparticles with enhanced UV-visible and visible light photocatalytic activity and application for the antibiotic removal from aqueous media.
*Journal of Materials Research, 2018, **accepted**.*

X WANG, P BOUTINAUD, L LI, J CAO, P XIONG, X LI, H LUO, M PENG
Novel persistent and tribo-luminescence from bismuth ion pairs doped strontium gallate
*Journal of Materials Chemistry C, 2018, **6 (38)**, 10367-10375*

2017

M.A. HASSAIRI, M. DAMMAK*, D. ZAMBON, G. CHADEYRON, R. MAHIOU
Red–green–blue upconversion luminescence and energy transfer in $Yb^{3+}/Er^{3+}/Tm^{3+}$ doped YP_5O_{14} ultraphosphates.
Journal of Luminescence, 2017, **181**, 393-399.
S. MAHLIK*, F. DIAZ, P. BOUTINAUD*
Luminescence quenching in $KYb(WO_4)_2$-Tb^{3+}: An example of temperature-pressure equivalence.
Journal of Luminescence, 2017, **191**, 18-21.

M. SERAICHE, L. GUERBOUS, M. KECHOUANE, A. POTDEVIN, G. CHADEYRON, R. MAHIOU*
VUV excited luminescence of $Gd_{0.9}Eu_{0.1}BO_3$ nanophosphor prepared by aqueous sol-gel method.
Journal of Luminescence, 2017, **192**, 404-409.

A. CHELOUCHE*, T. TOUAM, F. BOUDJOUAN, D. DJOUADI, R. MAHIOU, A. BOULOUFA, G. CHADEYRON, Z. HADJOUB
Na doping effects on the structural, conduction type and optical properties of sol–gel ZnO thin films.
J. Mater. Science: Materials in electronics, 2017, **28**, 1546-1554.

M. ABOUSSATAR, A. MBAREK, H. NAILI, M. EL-GHOZZI, G. CHADEYRON, D. AVIGNANT, D. ZAMBON*
Phase equilibria in the NaF-CdO-$NaPO_3$ system at 873K and crystal structure and physico-chemical characterizations of the new Na_2CdPO_4F fluorophosphates.
Journal of Solid State Chemistry, 2017, **248**, 75-86.

N. PRADAL, A. POTDEVIN*, G. CHADEYRON, P. BONVILLE, B.CAILLIER, R. MAHIOU
Spectroscopic study and enhanced thermostability of combustion-derived BaMgAl10O17:Eu2+ blue phosphors for solid-state lighting.
Optical Materials, 2017, **64**, 334-344.

A. GARRIDO HERNANDEZ*, D. BOYER, A. POTDEVIN, G. CHADEYRON, A. GARCÍA MURILLO, F. DE J. CARRILLO ROMO, R. MAHIOU
Tuning the morphology of $Gd_xY_{1-x}PO_4:Tb^{3+}$ powders and their emission intensity upon VUV excitation.
Optical Materials, 2017, **73**, 350-357.

S. MAHLIK*, F. DIAZ, P. BOUTINAUD*
Pressure-induced luminescence quenching in $KY(WO_4)_2:Pr^{3+}$.
Optical Materials, 2017, **74**, 41-45.

D. GONZALEZ-MANCEBO, A. I. BECERRO*, E. CANTELAR, F. CUSSO, A. BRIAT, D. BOYER, M. OCANA
Crystal structure, NIR luminescence and X-ray computed tomography of $Nd^{3+}:Ba_{0.3}Lu_{0.7}F_{2.7}$ nanospheres
Dalton Transactions, 2017, **46**, 6580-6587.

A. CHAPEL, R. BOONSIN, G. CHADEYRON*, D. BOYER, A. BOUSQUET, R. MAHIOU, W. HENRIQUE CASSINELLI, C. V. SANTILLI, S. THERIAS*
Preparation and characterization of a red luminescent composite composed of an EVA copolymer and a $Y_3BO_6:Eu^{3+}$ phosphor.
New Journal of Chemistry, 2017, **41**, 12006-12013.

A. PERTHUE, P. BOUTINAUD*, S. THERIAS, J. L. GARDETTE*
Photon management in the photochemical degradation of EVA-calcite composite films.
Polymer Degradation and Stability, 2017, **144**, 325-330.

I. TOPOLNIAK, A. CHAPEL, J. GAUME, P.-O. BUSSIERE, G. CHADEYRON, J.-L. GARDETTE, S. THERIAS*
Applications of polymer nanocomposites as encapsulants for solar cells and LEDs: Impact of photodegradation on barrier and optical properties.
Polymer Degradation and Stability, 2017, **145**, 52-59.

Z. SETIFI, D. ZAMBON, F. SETIFI, M. EL-GHOZZI, R. MAHIOU, C. GLIDEWELL*
Three zinc(II) and cadmium(II) complexes containing 4-amino-3,5-bis(pyridin-2-yl)-1,2,4-triazole and polynitrile ligands: synthesis, molecular and supramolecular structures, and photoluminescence properties.
Acta Crystallographica Section C: Structural Chemistry, 2017, **C73**, 674-681.

R. BEKKARI*, D. BOYER, R. MAHIOU, B. JABER*
Influence of the sol gel synthesis parameters on the photoluminescence properties of ZnO nanoparticles.
Materials Science in Semiconductor Processing, 2017, **71**, 181-187.

M. AMER, P. BOUTINAUD*
On the character of the optical transitions in closed-shell transition metal oxides doped with Bi3+.
Physical Chemistry Chemical Physics, 2017, **19**, 2591-2596.

A. STRZEP, A. WATRAS, K. ZAWISZA, P. BOUTINAUD, R. WIGLUSZ*
Forgotten and resurrected chernovite-(Y):$YAsO_4$ doped with Eu^{3+} ions as a potential nanosized luminophore.
Inorganic Chemistry, 2017, **56**, 10914-10925.

2016

E. CAVALLI*, P. BOUTINAUD, M. GRINBERG
Luminescence dynamics in $CaWO_4:Pr^{3+}$ powders and single crystals.
Journal of Luminescence, 2016, **169**, 450-453.

M. A. HASSAIRI, A. G. HERNANDEZ, T. KALLEL, M. DAMMAK, D. ZAMBON, G. CHADEYRON*, A. POTDEVIN, D. BOYER, R. MAHIOU
Spectroscopic properties and Judd-Ofelt analysis of Eu3+ doped GdPO4 nanoparticles and nanowires.
Journal of Luminescence, 2016, **170**, 200-206.

A. YAKOUBI, T. BEN CHAABANE, A.ABOULAICH, R. MAHIOU, L. BALAN, G. MEDJAHDI, R. SCHNEIDER*
Aqueous synthesis of Cu-doped CdZnS quantum dots with controlled and efficient photoluminescence.
Journal of Luminescence, 2016, **175**, 193-202.

A. WATRAS*, P. BOUTINAUD, R. PAZIK, P.J. DEREN
Luminescence-structure relationships in MYP_2O_7: Eu^{3+} (M=K, Rb, Cs).
Journal of Luminescence, 2016, **175**, 249-254.

M. DERBEL, A. MBAREK*, G. CHADEYRON, M. FOURATI, D. ZAMBON, R. MAHIOU
Novel bluish white-emitting $CdBaP_2O_7$:Eu^{2+} phosphor for near-UV white-emitting diodes.
Journal of Luminescence, 2016, **176**, 356-362.

S. MAHLIK*, M. AMER, P. BOUTINAUD*
Energy Level Structure of Bi3+ in Zircon and Scheelite Polymorphs of YVO4.
Journal of Physical Chemistry C, 2016, **120**, 8261-8265.

A. POTDEVIN*, V. BRIOIS, N. CAPERAA, C. V. SANTILLI, G. CHADEYRON, R. MAHIOU
A thorough spectroscopic study of luminescent precursor solution of Y3Al5O12: Tb3+: influence of acetylacetone.
RSC Advances, 2016, **6**, 41962-41971

R. BOONSIN, G. CHADEYRON*, J.-P. ROBLIN, D. BOYER, R. MAHIOU
Silica encapsulated fluorescein as a hybrid dye for blue-LED based lighting devices.
Journal of Materials Chemistry C, 2016, **4 (27)**, 6562-6569.

F. BOUDJOUAN, A. CHELOUCHE*, T. TOUAM, D. DJOUADI, R. MAHIOU, G. CHADEYRON, A. FISCHER, A. BOUDRIOUA
Doping effect investigation of Li-doped nanostructured ZnO thin films prepared by sol-gel process.
Journal of Materials Science-Materials in Electronics, 2016, **27 (8)**, 8040-8046.

H. EL HAMZAOUI, B. CAPOEN, N. AL HELOU, G. BOUWMANS, Y. OUERDANE, A. BOUKENTER, S. GIRARD, C. MARCANDELLA, O. DUHAMEL, G. CHADEYRON, R. MAHIOU, M. BOUAZAOU
Cerium-activated sol–gel silica glasses for radiation dosimetry in harsh environment.
Materials Research Express, 2016, **3 (4)**, 046201.

A. PERTHUÉ, P. BOUTINAUD, S. THERIAS, J.-L. GARDETTE*
Influence of down shifting particles on the photochemical behaviour of EVA copolymers.
Polymer Degradation and Stability, 2016, **133,** 144-151.

N. FRANCOLON, D. BOYER*, F. LECCIA, E. JOUBERTON, A. WALTER, C. BORDEIANU, A. PARAT, D. FELDER-FLESCH, S. BEGIN-COLIN, E. MIOT-NOIRAULT, J.M. CHEZAL, R. MAHIOU
Preparation of core/shell $NaYF_4$:Yb,Tm@dendrons nanoparticles with enhanced upconversion luminescence for in vivo imaging.
Nanomedicine: Nanotechnology, Biology and Medicine, 2016, **12**, 2107–2113.

A. BOUKHRISS, S. GMOUH*, H. HANNACHE, J.P. ROBLIN, O. CHERKAOUI, D. BOYER*
Treatment of cotton fabrics by ionic liquid with PF_6^- anion for enhancing their flame retardancy and water repellency.
Cellulose, 2016, **23,** 3355-3364.

A. GARRIDO HERNÁNDEZ, A. GARCÍA MURILLO*, F. DE J. CARRILLO ROMO, D. BOYER, A. POTDEVIN, G. CHADEYRON, J. REYES MIRANDA
Photoluminescence behavior of YPO_4:Tb^{3+} crystallized in monoclinic, hexagonal or tetragonal phase obtained by hydrothermal process.
Materials Research Bulletin, 2016, **84**, 225-231.

S. SEBAI, S. HAMMAMI, A. MEGRICHE, D. ZAMBON, R. MAHIOU
Synthesis, structural characterization and VUV excited luminescence properties of $Li_xNa_{(1-x)}Sm(PO_3)_4$ polyphosphates
Optical Materials 2016, **62,** 578-583.

R. MAHIOU, M. DRAMIĆANIN, B. VIANA
The 4th International Conference on the Physics of Optical Materials and Devices, ICOM2015, Budva, Montenegro, August 31- September 4th, 2015, Preface
Optical Materials, (2016), **61**, 1-2.

2015

P. BOUTINAUD*, D. BOYER, A. PERTHUE, R. MAHIOU, E. CAVALLI, M. G. BRIK
Spectroscopic investigations on SrAl2O4 polymorphs.
Journal of Luminescence, 2015, **159**, 158-165.

S. MAHLIK*, A. LAZAROWSKA, K. SZCZODROWSKI, M. GRINBERG*, E. CAVALLI, P. BOUTINAUD
Optical processes in YVO_4: Eu^{3}β: across zircon-to-scheelite phase transition.
Journal of Luminescence, 2015, **165**, 19–22.

S. MAHLIK*, E. CAVALLI, M. AMER, P. BOUTINAUD*
Energy levels in $CaWO_4:Tb^{3+}$ at high pressure.
Physical Chemistry Chemical Physics, 2015, **17**, 32341-32346.

M. MICHALKA, A. ABOULAICH, G. MEDJAHDI, R. MAHIOU, S. JURGA, R. SCHNEIDER*
Amine ligands control the optical properties and the shape of thermally grown core/shell $CuInS_2/ZnS$ quantum dots.
Journal of Alloys and Compounds, 2015, **645**, 184-192.

N. FRANCOLON, A. POTDEVIN*, D. BOYER, G. CHADEYRON, R. MAHIOU
Luminescent PVP/SiO_2@$YAG:Tb^{3+}$ composite films.
Ceramics International, 2015, **41**, 11272-11278.

A. ABOULAICH, N. CAPERAA, H. EL HAMZAOUI, B. CAPOEN, A. POTDEVIN, M. BOUAZAOUI, G. CHADEYRON*, R. MAHIOU
In situ synthesis of a highly crystalline Tb-doped YAG nanophosphor using the mesopores of silica monoliths as a template.
J. Mater. Chem. C, 2015, **3**, 5041-5049.

R. BOONSIN, G. CHADEYRON*, J.-P. ROBLIN, D. BOYER, R. MAHIOU
Development of rare-earth-free phosphors for eco-energy lighting based LEDs.
J. Mater. Chem. C, 2015, **3**, 9580-9587.

P. ADUMEAU, D. BOYER, J.-L.CANET, A. GAUTIER, R. MAHIOU*
Two-photon absorption properties of Eu^{3+}-DPA-triazolyl complexes and derived silica nanoparticles embedding covalently these complexes.
European Journal of Inorganic Chemistry, 2015, 1233-1242.

A. BOUKHRISS, D. BOYER*, H. HANNACHE, J.-P. ROBLIN, R.MAHIOU, O. CHERKAOUI, S. THERIAS, S. GMOUH
Sol-gel based water repellent coatings for textiles.
Cellulose, 2015, **22**, 1415–1425.

2014

A. GARRIDO HERNANDEZ, D. BOYER*, A. POTDEVIN, G. CHADEYRON, A. GARCIA MURILLO, F. de J. CARILLO ROMO, R. MAHIOU
Hydrothermal synthesis of lanthanide-doped $GdPO_4$ nanowires and nanoparticles for optical applications.
Physica Status Solidi A, 2014, **211**, 498-503.

A. ABDELHAY*, M. MARTYNA, R. SCHNEIDER, A. POTDEVIN, J. DESCHAMPS, R. DELONCLE, G. CHADEYRON, R. MAHIOU
Ce-Doped YAG Nanophosphor and Red Emitting CuInS2/ZnS Core/Shell Quantum Dots for Warm White Light-Emitting Diode with High Color Rendering Index.
ACS Applied Materials & Interfaces, 2014, **6 (1)**, 252-258.

A. MBAREK, G. CHADEYRON*, D. BOYER, D. AVIGNANT, M. FOURATI, D. ZAMBON, R. MAHIOU
Vacuum ultraviolet excited luminescence properties of sol-gel derived $GdP_5O_{14}:Eu^{3+}$ powders.
Journal of Luminescence, 2014, **145**, 335-339.

E. CAVALLI*, F. ANGIULI, A. BELLETTI, P. BOUTINAUD
Luminescence spectroscopy of $YVO_4:Ln(^{3+})$, Bi^{3+} (Ln^{3+} = Eu^{3+}, Sm^{3+}, Dy^{3+}) phosphors
Optical Materials, 2014, **36**, 1642-1648.

A. BARROS, R. DELONCLE, J. DESCHAMPS, P. BOUTINAUD*, G. CHADEYRON, R. MAHIOU, E. CAVALLI, M. G. BRIK
Optical properties and electronic band structure of $BiMg_2PO_6$, $BiMg_2VO_6$, $BiMg_2VO_6:Pr^{3+}$ and $BiMg_2VO_6:Eu^{3+}$.
Optical Materials, 2014, **36 (10)**, 1724-1729.

A. OUDAHMANE, A. BARROS, D. AVIGNANT*, D. ZAMBON
Synthesis and structural characterization of yttrium polyphosphates $AY(PO_3)_4$ (A = Rb, Tl, Cs) and site-selective spectroscopy of Eu^{3+} doped samples.
Zeitschrift für anorganische und allgemeine Chemie, 2014, 640, 935-943.

E. CAVALLI*, F. ANGIULI, F. MEZZADRI, M. TREVISANI, M. BETTINELLI, P. BOUTINAUD, M. G. BRIK
Tunable luminescence of Bi^{3+}-doped $YP_xV_{1-x}O_4$ ($0 <= x <= 1$).
Journal of Physics-Condensed Matter, 2014, **26**, 385503.

P. BOUTINAUD
Optical processes in $(Y,Bi)VO_4$ doped with Eu^{3+} or Pr^{3+}.
Journal of Physics-Condensed Matter, 2014, **26**, 405501.

A. GARRIDO-HERNÁNDEZ, A. GARCÍA-MURILLO*, F. DE J CARRILLO-ROMO, L. A. CRUZ-SANTIAGO, G. CHADEYRON, A. DE J MORALES-RAMÍREZ, S. VELUMANI
Structural studies of $BaTiO_3:Er^{3+}$ and $BaTiO_3:Yb^{3+}$ powders synthesized by hydrothermal method
Journal of Rare Earths, 2014, **32**, 1016–1021.

N. PRADAL*, G. CHADEYRON, S. THÉRIAS, A. POTDEVIN, C.V. SANTILLI, R. MAHIOU
Investigation on combustion derived $BaMgAl_{10}O_{17}$: Eu^{2+} phosphor powder and its corresponding PVP/$BaMgAl_{10}O_{17}:Eu^{2+}$ nanocomposite.
Dalton Transactions, 2014, **43**, 1072-1081.

N. PRADAL, D. BOYER, G. CHADEYRON*, S. THERIAS, A. CHAPEL, C.V. SANTILLI, R. MAHIOU
Investigations on PVP/$Y_3BO_6:Eu^{3+}$, a red luminescent composite for lighting devices based on near UV-LEDs.
Journal of Materials Chemistry C, 2014, **2**, 6301-6311.

H. EL HAMZAOUI, G. BOUWMANS, B. CAPOEN, Y. OUERDANE, G. CHADEYRON, R. MAHIOU, S. GIRARD, A. BOUKENTER, M. BOUAZAOUI
Effects of densification atmosphere on optical properties of ionic copper-activated sol-gel silica glass: towards an efficient radiation dosimeter.
Materials Research Express, 2014, **1(2)**, 026203.

Ouvrages, chapitres d'ouvrages

2023

P. BOUTINAUD, E.CAVALLI (sur invitation)
Metal-to-metal charge transfer involving Pr^{3+} or Tb^{3+} ions in transition metal oxides and its consequences on the luminescence behaviors
Luminescent Materials : Fundamentals and Applications, M. Brick & A. M. Srivastava eds., Walter de Gruyter GmbH & Co KG, 2023, pp. 239 – 270. ISBN: 9783110607857. doi.org/10.1515/9783110607871.

G. CHADEYRON, **A. POTDEVIN**
L'éclairage à base de diodes électroluminescentes : le rôle des luminophores
RX et Matière 6, R. Guinebretière, et P. Goudeau, éditions ISTE.
2023, pp 235-268, ISBN : 1784059889

2016

Eds : R. MAHIOU, M. DRAMIĆANIN, B. VIANA
Selected papers from the : 4th International Conference on the Physics of Optical Materials and Devices, ICOM2015, Budva, Montenegro, August 31- September 4th, 2015
Optical Materials, (2016), **61**

BREVETS

2021

D. BOYER, V. KUMAR, K. GUERIN, P. BOUTINAUD
Procédé de synthèse en voie sèche d'un luminophore par traitement sous atmosphère de fluor.
Brevet Français N° FR3106832 (publié le 6 août 2021).

A ABOULAICH, G CHADEYRON, R MAHIOU
Method for producing photoluminescent particles
US Patent 11,198,814 - (publié 14/12/2021)

2018

« Procédé de fabrication de particules photoluminescentes » :
Inventeurs : ABOULAICH Abdel (1/3), CHADEYRON Geneviève (1/3) et MAHIOU Rachid (1/3)
Famille de brevets :
N°FR3053353 (Publié le 5 janvier 2018)
N°WO2018002556 A1 (Publié le 4 janvier 2018)

2017

« Matériau photoluminescent et son procédé de fabrication. » :
Inventeurs : Aboulaich Abdel (1/3), Chadeyron Geneviève (1/3) et Rachid Mahiou (1/3)
Famille de brevets :
N°EP3183319A1 (Publié le 28 juin 2017)
N°US2017283697A1 (Publié le 5 octobre 2017)
N°FR3024983B1 (Publié le 29 décembre 2017)

« Procédé sol-gel de synthèse d'un matériau luminescent de formulation générale $A_xB_yF_z$:Mn" :
Inventeurs : G.Chadeyron (20%), D. Boyer(10%), P. Boutinaud (20%), R.Deloncle (10%), J. Deschamps (10%) et A. Barros (30%)
N° FR3043687A1 (Publié le 19 mai 2017)
N° WO2017081428 (Publié le 18 mai 2017)

"Matériau composite luminescent sans terre rare »
Inventeurs: Chadeyron Geneviève (20%), Boyer Damien (20%), Leroux Fabrice (10%), Mahiou Rachid (10%), Boonsin Rachod (20%), Vialat Pierre (20%)
Famille de Brevets :
N° FR3048702A1 (Publié le 15 septembre 2017)
N° WO2017158284 (Publié le 21 septembre 2017)

2016

A. ABOULAICH, G. CHADEYRON, R. MAHIOU
« Matériau photoluminescent et son procédé de fabrication. »
N°FR3024983A1 (Publié le 26 février 2016)
N°WO2016027027A1 (Publié le 25 février 2016)

Co-inventeurs: D. Boyer
"Grafting of ionic liquids onto textile materials by a sol/gel method for the development of special-purpose fabrics"
Brevet International N° WO2015099520 A1 (publié le 2 juillet 2016)

2015

Co-inventeurs: D. Boyer
"Greffage des liquides ioniques sur des matériaux textiles par voie sol/gel pour le développement de tissus a taches dédiées"
Brevet Marocain N° MA20150438 A1 (publié le 30 novembre 2015)

Publications dans des revues non répertoriées

2022

D. KYRGINAS, G. LEDRU, **D. BOYER, G. CHADEYRON**, B. GLORIEUX, G. ZISSIS
Yellow YAG: Ce^{3+} phosphor in polyimide matrix for white light generation by laser diode
2022 IEEE International Conference on Environment and Electrical Engineering and 2022 IEEE Industrial and Commercial Power Systems Europe (EEEIC / I&CPS Europe), 2022, pp. 1-5, doi: 10.1109/EEEIC/ICPSEurope54979.2022.9854579.

P. MARTIN, **A. POTDEVIN**, **G. CHADEYRON**
Nanophosphors, a catalyst for micro-LED technology development
2021 Joint Conference - 11th International Conference on Energy Efficiency in Domestic Appliances and Lighting & 17th International Symposium on the Science and Technology of Lighting (EEDAL/LS:17), 2022, pp. 1-6.

2021

P. BOUTINAUD
Revisiting Duffy's model for Sb^{3+} and Bi^{3+} in double halide perovskites: Emergence of a descriptor for machine learning.
Optical Materials: X, 2021, **11**, 100082 (invited paper).

P. LEGENTIL, F. LEROUX, R. MAHIOU, S. THERIAS, D. BOYER, F. REVERET, L. NAUTON, V. THERY, R. VALLEIX, G. CHADEYRON*
Elucidating the effect of the spacer and the luminescence mechanism of SRB hosted in a LDH interlayer.
Materials Advances, 2021, sous presse (doi: 10.1039/D1MA00939G).

2020

Q. LIN, X. HUANG, S. RAMACHANDRAN, X. WANG, R. BOONSIN, Y. KHENDRICHE, R. VALLEIX, J.-P. ROBLIN, D. BOYER, GENEVIÈVE CHADEYRON, G. ZUCCHI
2,2'-bipyrimidine as a New Building Block for the Design of Emissive Conjugated Polymers for Hybrid LED Lighting
ACS Appl. Polym. Mater. 2020, 2, 12, 5581–5591

F KANG, Y DU, P BOUTINAUD, G SUN, X WANG, J LU, S XIAO
Luminescence in external dopant-free scandium-phosphorus vanadate solid solution: a spectroscopic and theoretical investigation
Materials Advances, 2020, 1 (7), 2467-2482

A. BOUKHRISS, M. EL MESSOUDI, J.P. ROBLIN, T.AABOUB, D. BOYER, S. GMOUH
"Luminescent hybrid coatings prepared by the sol-gel process for textile-based pH sensor"
Materials Advances, 1 (2020) 918-925.

Acte de congrés avec comité de lecture

2016

M. DRAMIĆANIN, B. VIANA, R. MAHIOU
ICOM2015 Book of Abstracts: The 4th International Conference on the physics of Optical Materials and devices, Budva, Montenegro, 2016, ISBN : 978-86-7306-134-4, 327 pages.

2015

BRUNO CAPOEN, HICHAM EL HAMZAOUI, MOHAMED BOUAZAOUI, LAURENT BIGOT, GERAUD BOUWMANS, YOUCEF OUERDANE, AZIZ BOUKENTER, SYLVAIN GIRARD, **GENEVIEVE CHADEYRON**, RACHID MAHIOU, CLAUDE MARCANDELLA, OLIVIER DUHAMEL
Innovative copper-doped glasses and fibers as sensitive materials for ionizing beam dosimetry.
ICOM 2015 (4th International Conference on the Physics of Optical Materials and Devices)

2014

B. CAPOEN, H. EL HAMZAOUI, L. BIGOT, G. BOUWMANS, B. CAPOEN, Y. OUERDANE, A. BOUKENTER, S. GIRARD, **G. CHADEYRON**, R. MAHIOU, F. CROP, S. THIERRY, M. BOUAZAOUI
Sol-gel derived ionic copper-doped glasses and microstructured optical fibers: a potential radiation dosimeter.
Proceeding RAD 2014, (2014), 1 (2), 026203.

Conférences données à l'invitation du Comité d'organisation dans un congrès national ou international

2023

M. KHAYWAH, **A. POTDEVIN, F. RÉVERET, R. MAHIOU**, Y. OUERDANE, A. DESERT, S. PAROLA, **G. CHADEYRON**, E. CENTENO, R. SMAALI, A. MOREAU
Non-resonant enhancement of photoluminescence based on metallic nanocubes
META 2023, 18-21 juillet 2023, Paris

P. BOUTINAUD
Luminescence-structure relationships in Bi^{3+}-doped solids
20th International Conference on Luminescence – ICL 2023, 27 août-1er septembre 2023, Paris

2022

P. BOUTINAUD
$CuLaO_2$ reloaded
7th International Workshop on Advanced Spectroscopy and Optical Materials (IWASOM'2022), 10-15 July, Gdansk (Poland)

A. POTDEVIN, **P. MARTIN**, **G. CHADEYRON**, **D. BOYER**
Development of nanophosphors suitable for microLEDs
IEEE-NAP 2022, 11-16 septembre 2022, Cracovie (Pologne)

M. BOUAZAOUI, M. CIESLIKIEWICZ-BOUET, H. EL HAMZAOUI, Y. OUERDANE, **R. MAHIOU, G. CHADEYRON**, L. BIGOT, A. CASSEZ, G. BOUWMANS, A. MORANA, A. BOUKENTER, S. GIRARD, F. MADY, M. BENABDESSELAM, B. CAPOEN
Glassy materials and optical fibers for remote ionizing radiation dosimetry
International Conference on Materials Science, Engineering & Technology, 07-09 septembre 2022, Singapour.

2021

G. CHADEYRON, S. THERIAS, F. LEROUX, P. LEGENTIL, R. VALLEIX, D. BOYER
Luminophores sans terres rares intégrés dans une matrice hydroxyde double lamellaire (HDL) pour des applications dans des dispositifs à base de LEDs. Conférence invitée.
Optique Dijon 2021, Dijon, 5-9 juillet 2021.

2020

D. BOYER, A. POTDEVIN, R. MAHIOU, P. BOUTINAUD, J.P. ROBLIN, D. ZAMBON, G. CHADEYRON
"Matériaux luminescents pour l'éclairage LED, une solution écoénergétique !"
Colloque scientifique de l'IMT, Matériaux pour la transition énergétique, en virtuel, 8 octobre 2020.

P. BOUTINAUD
Pr^{3+}-to-Nb^{5+} charge transfer in $LiNbO_3$ and its consequences: a tribute to Professor Marek Grinberg in memory of his outstanding work on impurity trapped excitons
1st Edition of the International Conference on the Physics of Optical Materials and Devices-Asia (ICOM-ASIA 2020), Chongqing, December 10-14, 2020.

2018

P. BOUTINAUD
Luminescence-structure relationships in oxidic compounds activated with Bi^{3+} ions.
International Symposium on Structure-Property Relationships in Solid State Materials, Pescara (Italie), 8-12 juin 2018.

H. EL HAMZAOUI, B. CAPOEN, N. AL HELOU, J. BAHOUT, G. BOUWMANS, Y. OUERDANE, A. BOUKENTER, S. GIRARD, C. MARCANDELLA, O. DUHAMEL, **G. CHADEYRON, R. MAHIOU**, *M. BOUAZAOUI*
Doped Sol-gel Silica Glasses for Radiation Dosimetry in Harsh Environment
International Conference on Photonics Research, Antalya, Turkey, 8-12 octobre 2018.

2017

G. CHADEYRON
Luminophores sans terres rares.
Colloque sur les nouvelles technologies de l'Eclairage 2017, Troyes, 15-16 mars 2017.

P.-O. BUSSIERE, G. CHADEYRON, J.-L GARDETTE, S.THERIAS
Impact of photodegradation on barrier and optical properties of polymers for encapsulation of organic solar cells or LEDs.
Workhop Modest, Albufeira (Portugal), 30 avril - 3 mai 2017.

G. CHADEYRON, D. BOYER, A. POTDEVIN, P. BOUTINAUD, D. ZAMBON, J.-P. ROBLIN, R. MAHIOU
Development of rare –earth-free phosphors and their shaping for LED-based lighting devices.
Phosphor Safari and International Workshop on advanced spectroscopy and optical materials (PS-IWASOM), Gdansk (Pologne), 9-14 juillet 2017.

A. CHAPEL, R. BOONSIN, A. POTDEVIN, N. PRADAL, G. CHADEYRON, S. THERIAS
Polymer /phosphor composites in eco-energetic lighting (LED). Influence of polymer photooxidation on optical performances.
PDDG 32, Taormine (Sicile), 3-7 septembre 2017.

R. MAHIOU
Ions luminescents & LED bleu-UV : caractéristiques spectrales et utilisation pour l'affichage et l'éclairage.
JNCO Formation 2017, "Cristaux, Micro-nano-structures et Dispositifs pour l'Optique", Paris, 4-6 septembre 2017.

2016

G. CHADEYRON
Le rôle des luminophores dans les dispositifs d'éclairage à LEDs.
Workshop : "la photonique appliquée à l'électronique", Bordeaux, 18 mai 2016.

G. CHADEYRON
Development of new phosphors for LEDs Lighting.
Workshop Materials for Optics and Optoelectronics, Paris, 8-9 juin 2016.

R. MAHIOU, D. BOYER, A. POTDEVIN, G. CHADEYRON
Potentialités d'applications de matériaux hybrides pour l'optique et la photonique.
Congrès SFO-JNPO, Bordeaux, 4-7 juillet 2016.

M. AMER, P. BOUTINAUD
The environmental factor model: a tool for the design of Eu^{2+}-doped monophosphate phosphors?
6th International Conference on Excited States of Transition Elements, Polanica Zdrój (Pologne), 21-26 août 2016.

R. MAHIOU, D. BOYER, A. POTDEVIN, G. CHADEYRON
« Potentialités d'applications de matériaux hybrides pour l'optique et la photonique. »
Congrès SFO-JNPO, 04-07 juillet 2016, Bordeaux

2015

G. CHADEYRON
Les Luminophores et les nouvelles technologies d'éclairage.
6ème colloque sur les nouvelles technologies de l'éclairage, Troyes, 11-13 mars 2015.

N. FRANCOLON, D. BOYER, R. MAHIOU
Up-Converting Nanoparticles for Smart Traceability.
2nd International Conference on Nanomaterials & Applications, Maribor (Slovénie), 23-26 juin 2015.

G. CHADEYRON
L'éclairage à base de diodes électroluminescentes : le rôle des luminophores.
XIe Colloque Rayons X & Matière, Minatec, RX 2015, Grenoble, 1-4 décembre 2015.

2014

P. BOUTINAUD
Spectroscopic investigations on $SrAl_2O_4$ polymorphs.
17th International Conference on Luminescence, Wroclaw (Pologne), 13-18 juillet 2014.

P. BOUTINAUD
Bismuth and vanadium : what else?
Workshop on complex luminescence phenomena in inorganic materials, Erice (Italie), 30 juillet – 5 août 2014.

R. MAHIOU
Potentialités d'application de matériaux hybrides organiques inorganiques luminescents pour l'optique et la photonique.
Ecole Thématique Matériaux pour l'Optique et la Photonique (MOP 2014), Guelma (Algérie), 5-12 septembre 2014.

G. CHADEYRON
How to produce White Light with phosphors and LEDs?
Forum LED Europe, Paris, 14-15 octobre 2014.

D. BOYER
Developments of multifunctional nanoparticles for the early prostate cancer diagnosis.
Workshop BioNanoscience, Araraquara (Brésil), 17-19 novembre 2014.

G. CHADEYRON
Les Luminophores et l'Eclairage LED : Etat de l'Art et Objectifs.
MATERIAUX 2014, Montpellier, 24-28 novembre 2014.

2021

G. CHADEYRON, A. POTDEVIN
Luminophores et marquage anti-contrefaçon.
Webinaire du Cluster Lumière, 15 juin 2021.

F. CISNETTI
N-heterocyclic carbenes, copper, water, azides: a tale of serendipity. Séminaire invité (en ligne)
Université de Sussex (Royaume-Uni), 6 octobre 2021.

2018

D. BOYER
Down Conversion Materials for LED Based Solid-State Lighting.
University of Salzburg, Department of Chemistry and Physic of Materials, Salzburg (Autriche), 12 juin 2018.

G. CHADEYRON
LEDs et luminophores: une lumière modulable répondant à de nombreux domaines d'application allant de la santé à l'horticulture, IRCER, UMR CNRS 7315, Centre Européen de la céramique de Limoges, 29 novembre, 2018.

R. MAHIOU
Matériaux hybrides, késako ? : de la définition aux potentialités d'applications dans le domaine de l'optique, la photonique ou l'optoélectronique, Université des Sciences et de la Technologie Houari Boumediene, Alger (Algérie), 22 octobre 2018.

R. MAHIOU
Le photovoltaïque : l'énergie solaire ; une ressource inépuisable pour suppléer aux énergies fossiles.
Projet du collège Lucie Aubrac de Clermont-ferrand : Les Explorhéteurs, bâtisseurs du futur, Clermont-Ferrand, 22 novembre 2018.

2017

D. BOYER
Development of Luminescent Materials
Centre suisse d'électronique et de microtechnique (CSEM), Muttenz (Suisse), 22 juin 2017.

A. POTDEVIN
Synthèse, mise en forme et caractérisation de luminophores pour l'éclairage.
Institut National Universitaire Champollion (Equipe Diagnostic des plasmas hors équilibre), Albi, 30 juin 2017.

R. MAHIOU
Nanomatériaux et technologie : une association prometteuse pour le futur ?
Université des Sciences et de la Technologie Houari Boumediene (USTHB), Alger (Algérie), 17 octobre 2017.

R MAHIOU
Luminescence et luminophores : des mécanismes fondamentaux aux potentialités d'application,
Université des Sciences et de la Technologie Houari Boumediene (USTHB), Alger (Algérie), 19 octobre 2017.

2015

P. BOUTINAUD
Cements and concretes : the world most produced nanostructured materials.
Polish Academy of Sciences, Wroclaw (Pologne), 16-20 février 2015.

R. MAHIOU
Luminescence et luminophores: des mécanismes fondamentaux aux potentialités d'application.
CEA-Grenoble, 3 avril 2015.

Communications dans un congrès international

2023

R. THEVENET, **G. CHADEYRON**, **F. RÉVERET, A. POTDEVIN**
Synthesis and characterization of chromium-doped Yttrium Aluminum Garnet crystals by Pechini and co-precipitation
Congrès SCF 2023, 26-28 juin 2023, Nantes

P. MARTIN, **A. POTDEVIN**, **G. CHADEYRON**, **D. BOYER**
Lead-free manganese halides – from synthesis to optical properties characterization
Congrès SCF 2023, 26-28 juin 2023, Nantes

G. ZERBIB, D.BOYER, G. CHADEYRON, F. LEROUX
Highly luminescent rare-earth-free red phosphor constituted of SRB molecules intercalated into LDH
Congrès SCF 2023, 26-28 juin 2023, Nantes

L. LOPEZ, P. PICHON, P. LOISEAU, B. VIANA, **R. MAHIOU**, F. DRUON, P. GEORGES, F. BALEMBOIS
Ce:LYSO, from scintillator to solid-state lighting as a blue luminescent concentrator
CLEO Europe, 26-30 juin 2023, Munich, Germany.

A. TRAN, F. CISNETTI, D. BOYER
Carboxylate BODIPY functional zinc based metal-organic frameworks: towards solid state luminescence
9th Conference of the Federation of the European Zeolite Associations (FEZA2023), 2-6 July 2023, Portorož (Slovenie)

E. CENTENO, **A. MARTIN**, MI. LANGLET, **A. POTDEVIN**, **F RÉVERET**, R. SMAALI, E. KACHAN, Y. JOURLIN., **G. CHADEYRON**
Enhanced photoluminescence of ZnO nanowire coatings and gratings
META 2023, 18-21 juillet 2023, Paris

C. BASLARI, H. MASKROT, W. PACQUENTIN, S. DE SOUSA NOBRE, **D. ZAMBON**, **R. MAHIOU**
Embedding of Luminescent Pigments within 316L Stainless Steel Matrix by Laser Powder Bed Fusion for Optical Functionalities
34th Annual International Solid Freeform Fabrication Symposium – An Additive Manufacturing Conference (SFF 2023)
14-16 août 2023, Austin, Texas USA

A. MARTIN, A. POTDEVIN, F. RÉVERET, E. CENTENO, D. RIASSETTO, M. LANGLET, G. CHADEYRON
Luminescence properties of multiscale nanostructured coatings combining ZnO nanowires and $Y_3Al_5O_{12}:Ce^{3+}$
20th International Conference on Luminescence – ICL 2023, 27 août-1er septembre 2023, Paris

P. MARTIN, **A. POTDEVIN**, **G. CHADEYRON**, **F. REVERET**, **D. BOYER**
Lead-free manganese based perovskite inspired metal halides: from synthesis to (micro)-LED application
20th International Conference on Luminescence – ICL 2023, 27 août-1er septembre 2023, Paris

F. RÉVERET, **M. KHAYWAH**, **A. POTDEVIN**, **R. MAHIOU**, Y. OUERDANE, A. DÉSERT, S. PAROLA, **G. CHADEYRON**, E. CENTENO, R. SMAALI, A. MOREAU
Light extraction and injection enhancement using metallic nanocubes
20th International Conference on Luminescence – ICL 2023, 27 août-1er septembre 2023, Paris

C. BASLARI, H. MASKROT, W. PACQUENTIN, S. DE SOUSA NOBRE, **D. ZAMBON**, **R. MAHIOU**
Embedding of YAG:Ce within 316L stainless steel matrix by additive manufacturing for corrosion monitoring
20th International Conference on Luminescence – ICL 2023, 27 août-1er septembre 2023, Paris

L. LOPEZ, P. PICHON, P. LOISEAU, B. VIANA, **R. MAHIOU**, F. DRUON, P. GEORGES, F. BALEMBOIS
Ce:LYSO as a blue luminescent concentrator
20th International Conference on Luminescence – ICL 2023, 27 août-1er septembre 2023, Paris

C. BASLARI, H. MASKROT, W. PACQUENTIN, S. DE SOUSA NOBRE, **D. ZAMBON**, **R. MAHIOU**
Development of sensing luminescent layers by laser powder bed fusion for corrosion monitoring
MAMC "Metal Additive Manufacturing Conference" 2023, 17-19 octobre 2023, Vienne, Autriche

2022

L. MARICHEZ, E. GAMET, I. VERRIER, A. VALOUR**,** N. CRESPO-MONTEIRO, **G. CHADEYRON**, **D. ZAMBON**, Y. JOURLIN
Microstructuration of luminescent coatings
SPIE Photonics Europe, 03-07 avril 2022, Strasbourg.

F. OMEIS, R. SMAALI, **A. MARTIN**, **A. POTDEVIN**, **F. RÉVERET**, E. CENTENO, E. SILAEVA, Y. JOURLIN, **G. CHADEYRON**, M. LANGLET
Enhancement of Light Emission Using ZnO Grating Nanowires: An Experimental and Numerical Study
8th International Conference on Antennas and Electromagnetic Systems (AES), 24-27 mai 2022, Marrakech (Maroc).

J. CATHALAN, M. SALAÜN, A. IBANEZ, **A. POTDEVIN**, **G. CHADEYRON**, I. GAUTIER-LUNEAU
Aluminium borate powders and composite coatings as rare earth-free phosphors
EMRS Spring Meeting 2022, 30 mai-3 juin 2022, Virtual Conference.

P. MARTIN, **A. POTDEVIN**, **G. CHADEYRON**
Nanophosphors, a catalyst for micro-LED technology development
17th International Symposium on Science and Technology of Lighting (LS17), 1-3 juin 2022, Toulouse.

A. MARTIN, N. AMARA, **A. POTDEVIN**, D. RIASSETTO, **G. CHADEYRON**, M. LANGLET
Development of sol-gel derived ZnO nanowires (NWs) arrays for optical applications
Sol-Gel 2022, 24-29 juillet 2022, Lyon.

M. SALAÜN, **J. CATHALAN**, V. MAUREL, D. GASPARUTTO, C. SAINT-PIERRE, , I. GAUTIER-LUNEAU, A. IBANEZ, **A. POTDEVIN, G. CHADEYRON**
New generation of aluminium borate phosphors for white LEDs lighting prepared by "chimie douce"
Sol-Gel 2022, 24-29 juillet 2022, Lyon.

L. MARICHEZ, G. CHADEYRON, E. GAMET, V. GATE, Y. JOURLIN, I. VERRIER and **D. ZAMBON**
Sol-gel based microstructured luminescent coating
Sol-Gel 2022, 24-29 juillet 2022, Lyon.

A APOSTOLUK, B. MASENELLI, **G. CHADEYRON**, **A. POTDEVIN**, S. DANIELE
Sol-gel processing of hybrid ZnO nanophosphors self-assembled in mesospheres for WLED application
Sol-Gel 2022, 24-29 juillet 2022, Lyon.

J. CATHALAN, **A. POTDEVIN**, M. SALAÜN, A. IBANEZ, I. GAUTIER-LUNEAU, **G. CHADEYRON**
Development of rare earth-free aluminium borate-based phosphors and composite films
The 6th International Conference on the Physics of Optical Materials and Devices (ICOM 2022), 29 août-2septembre 2022, Belgrade (Serbie).

M. CIESLIKIEWICZ-BOUET*, H. EL HAMZAOUI, Y. OUERDANE**, R. MAHIOU**, **G. CHADEYRON**, L. BIGOT, A. CASSEZ, G. BOUWMANS, M. BOUAZAOUI, A. MORANA, A. BOUKENTER, S. GIRARD, F. MADY, M. BENABDESSELAM, B. CAPOEN
"Verres de silice dopés cérium pour la détection de rayonnements ionisants"
Matériaux 2022, Colloque 6 (Verres et amorphes pour les enjeux de demain), 24-28 octobre 2022, Lille.

C. BASLARI, H. MASKROT, W. PACQUENTIN, S. DE SOUSA NOBRE, P. LAGOUTARIS, **D. ZAMBON**, **R. MAHIOU**
Intégration de luminophores dans des pièces d'acier inoxydable 316L par fabrication additive
Matériaux 2022, Colloque 11 (Procédés et Matériaux), 24-28 octobre 2022, Lille.

A. TRAN, R. VALLEIX, M. MATIC, M. SLEIMAN, **F. CISNETTI, D. BOYER**
Evaluation de matériaux photocatalytiques à base de QDs InP : applications pour le traitement de l'eau et de l'air intérieur

Matériaux 2022, Colloque 5 (Matériaux et environnement), 24-28 octobre 2022, Lille.
D. BOYER, A. POTDEVIN, P. MARTIN, R. VALLEIX, R. MAHIOU, J.P. ROBLIN, F. LEROUX**, G. CHADEYRON**
Développement de nanoluminophores pour des applications optiques
Matériaux 2022, Colloque 9 (Nanomatériaux), 24-28 octobre 2022, Lille.

2021

Y. CHEROURA, Z. SMARA, A. POTDEVIN, D. BOYER, A. CHAFA, O. ZIANE, R. MAHIOU
Gd^{3+}-Eu^{3+} energy transfer and Judd-Ofelt analysis of Eu^{3+} doped β-$NaGdF_4$ nanorods obtained by rapid coprecipitation method.
DZENERGY 2021, Hassi Messaoud, Ouargla (Algérie), 26-27 mars 2021.

Z. SMARA, Y. CHEROURA, D. BOYER, A. POTDEVIN, A. CHAFA, O. ZIANE, R. MAHIOU
Energy transfer and luminescent properties of Tb^{3+}, and Tb^{3+}-Yb^{3+} doped α-$NaYF_4$ nanophosphors prepared by coprecipitation route.
DZENERGY 2021, Hassi Messaoud, Ouargla (Algérie), 26-27 mars 2021.

M. CIESLIKIEWICZ-BOUET, H. EL HAMZAOUI, Y. OUERDANE, G. CHADEYRON, R. MAHIOU, L. BIGOT, A. CASSEZ, G. BOUWMANS, M. BOUAZAOUI, A. MORANA, A. BOUKENTER, S. GIRARD, B. CAPOEN
Cerium-doped silica MCVD preforms: from the fabrication to optical fiber remote radiation dosimetry.
SiO2, Advanced Dielectrics and related Devices Symposium (SiO2 2021) - 13th edition, visioconférence, 14-15 juin 2021.

P. BOUTINAUD
In the wake of George Blasse.
19th International Conference on Luminescence, Changchun (Chine), 26–30 juillet 2021 (sur invitation).

N. AMARA, A. MARTIN, A. POTDEVIN, D. RIASSETTO, G. CHADEYRON, M. LANGLET
Enhancement of the light extraction efficiency of sol-gel derived YAG:Ce coatings using ZnO nanowires (NWs) array.
EUROMAT 2021 (conférence virtuelle), 13-17 septembre 2021.

M. CIESLIKIEWICZ-BOUET, H. EL HAMZAOUI, Y. OUERDANE, R. MAHIOU, G. CHADEYRON, L. BIGOT, K. BAUDELLE, R. HABERT, A. C., G. BOUWMANS, M. BOUAZAOUI, A. MORANA, A. BOUKENTER, S. GIRARD, M.BENABDESSELAM, B. CAPOEN, F. MADY
New glassy materials for remote ionizing radiation dosimetry
Workshop on Radiation Effects on Optoelectronics and Photonics Technologies (RADOPT), 15-18 novembre 2021, Saint-Etienne

N. AMARA, A. MARTIN, A. POTDEVIN, F. REVERET, D. RIASSETTO, G. CHADEYRON, M. LANGLET
Nanostructuration of YAG:Ce coatings by ZnO nanowires: a smart way to enhance light extraction efficiency.
European Materials Research Society Fall Meeting 2021, visioconférence, 20-23 septembre 2021.

D. BOYER, R. VALLEIX, A. CORDONNIER, R. MAHIOU, G. CHADEYRON
Development of nanosized phosphors for optical applications.
European Materials Research Society Fall Meeting 2021, visioconférence, 20-23 septembre 2021.

R. VALLEIX, F. CISNETTI, H. OKUNO, P. BOUTINAUD, G. CHADEYRON, D. BOYER
Sterically hindered diamines: a new strategy to get control over InP quantum dots size.
European Materials Research Society Fall Meeting 2021, visioconférence, 20-23 septembre 2021.

R. VALLEIX, Q. ZHANG, D. BOYER, P. BOUTINAUD, G. CHADEYRON, Y. FENG, H. OKUNO, F. RÉVERET, H. HINTZE-BRUENING, F. LEROUX
Size-matching interlayer space (SMIS) method: a new route towards efficient red-emitting phosphor.
4th International Conference on Optics, Photonics and Lasers (OPAL' 2021), Corfu (Grèce), 13-15 octobre 2021.

M. KHAYWAH, A. POTDEVIN, F. RÉVERET, R. MAHIOU, Y. OUERDANE, A. DESERT, S. PAROLA, G. CHADEYRON, E. CENTENO, R. SMAALI, A. MOREAU
Metallic nanocubes as a versatile mean of enhancing photoluminescence.
International Workshop on Metallic Nano-Objects (MNO 2020), 5th edition, Saint-Etienne, 17-19 novembre 2021.

2019

R. Valleix, D. Boyer, P. Boutinaud, F. Reveret and G. Chadeyron
“Synthesis and characterization of III-V based quantum dots for light emission”
The SFNano – C’Nano joint meeting 2019, Dijon, 10-12 décembre 2019.

A. Cordonnier, D. Boyer, S. Besse, A. Briat, F. Degoul, R. Mahiou, A. Maisonial-Besset, B. Maunit, L. Mazuel, M. Quintana, M. Vivier, E. Miot-Noirault, J-M. Chezal
“Synthesis and preliminary biological evaluations of PSMA-targeted NIR upconverting nanoparticles for optical/scintigraphic imaging of prostate cancer”
NanoMedicine International Conference (Nanomed 2019), Lisbonne, 23-25 octobre 2019.

N. Amara*, A. Potdevin, M. Messaoud, J. Bouaziz, D . Riassetto, G. Chadeyron, Michel Langlet
« Nanocomposite and nanostructures coatings for LED lighting and photocatalytic applications »
International Conference On Advanced Materials, CIMA 2019, Hammamet (Tunisie), 25-28 octobre 2019.

P. Jongchansitto, D. Boyer, I. Preechawuttipong, X. Balandraud
"Identification of interparticle contacts in granular media Using mechanoluminescent materials"
Society for Experimental Mechanics (SEM) annual meeting 2019, Reno (USA), 3-6 juin 2019.

R. Valleix, D. Boyer, P. Boutinaud and G. Chadeyron
"Synthesis and optical characterization of InP/ZnE (E = S, Se) quantum dots for LED applications"
10th Russian-French Workshop on Nanowires and Nanotechnologies, Clermont-Ferrand, 12-14 juin 2019.

2018

L. ZAMMOURI, A. ABOULAICH, M. STITOU, R. MAHIOU
New and efficient phosphor-based visible-light-driven photocatalysts for the removal of antibiotics from the aquatic environment.
4th International Congress, Water, Waste and energy Management, Madrid (Espagne), 18-20 juillet 2018.

G. PALACIO, S. H. PULCINELLI, R. MAHIOU, D.BOYER, C. V. SANTILLI
Bi-functional electro-optical material based on ureasil-polyether hybrid.
8th International Conference on Optical, Optoelectronic and Photonic Materials and Applications (ICOOPMA), Maresias (Brésil), 26-31 août 2018.

R. VALLEIX, D. BOYER, A.POTDEVIN, D. ZAMBON, P. BOUTINAUD, R. MAHIOU, G. CHADEYRON
Synthesis and durability investigation of InP/ZnE (E = S, Se) Quantum Dots for LED lighting applications.
5th International Conference on the Physics of Optical Materials and Devices, Igalo (Montenegro), 27-31 août 2018.

R. BOONSIN, F. DONAT, D. BOYER, R. SCHNEIDER, P. BOUTINAUD, R. MAHIOU, G. CHADEYRON
Optical properties and reliability studies of gradient alloyed green and red emitting quantum dots for white light-emitting diodes.
Nanophotonics and Micro/Nano Optics International Conference 2018, Rome (Italie), 1-3 octobre 2018.

J. NYALOSASO, A. POTDEVIN, F. RÉVERET, R. MAHIOU, P. DISSEIX, G. CHADEYRON
Nanopatterning of sol-gel derived luminescent thin films as a promising tool to enhance extraction efficiency in LEDs devices.
Nanophotonics and Micro/Nano Optics International Conference 2018, Rome (Italie), 1-3 octobre 2018.

2017

R. BOONSIN, F. DONAT, D. BOYER, G. CHADEYRON, J.-P. ROBLIN, R. SCHNEIDER, R. MAHIOU
Development of rare-earth-free luminescent nanocomposites for LED-based lighting devices.
5th International Conference on Multifunctional, Hybrid and Nanomaterials, Lisbonne (Portugal), 6-10 mars 2017.

A. CHAPEL, R. MAHIOU, G. CHADEYRON, S. THERIAS
Photostability and optical performances of polymer/phosphor composites for eco-energetic lightings.
EPF 2017, Lyon, 2-7 juillet 2017.

R. BOONSIN, F. DONAT, D. BOYER, R. SCHNEIDER, P. BOUTINAUD, G. CHADEYRON
Development of quantum dots based luminescent composites for LED lighting.
International Workshop on Advanced Spectroscopy and Optical Materials (IWASOM), Gdansk (Pologne), 9-14 juillet 2017.

A. WATRAS, P. J. DEREN, P. BOUTINAUD
Spectroscopic properties of unusual oxidation state of bismuth ions (Bi^{2+}) obtained in $Ca_9KMg(PO_4)_7$.
International Workshop on Advanced Spectroscopy and Optical Materials (IWASOM), Gdansk (Pologne), 9-14 juillet 2017.

A. NADI, D. BOYER, C. FORESTIER, S. GMOUH
Synthesis of Iron oxide nanoparticles and their application for the development of bacterial bioreactor.
6th International Conference on Intelligent Textiles & Mass Customisation (ITMC 2015), Gand (Belgique), 15-18 octobre 2017.

L. OUAREZ, A. CHELOUCHE, T. TOUAM, D. BARBA, R. MAHIOU, D. DJOUADI, F. ROSEI
Structural, morphological and optical investigation of sol-gel Au-doped ZnO nanostructured thin films.
Applied Nanotechnology and Nanoscience International Conference – ANNIC 2017, Rome (Italie), 18-20 octobre 2017.

N. AL HELOU, H. EL HAMZAOUI, B. CAPOEN, G. BOUWMANS, Y. OUERDANE, A. BOUKENTER, S. GIRARD, G. CHADEYRON, R. MAHIOU, M. BOUAZAOUI
X-ray Monitoring using Optically Stimulated Luminescence in Cerium-doped Sol-gel Silica Glasses
RADECS 2017: Radiation and Its Effects on Components and Systems, Oct 2017, Genève, Switzerland

B. CAPOEN, H. EL HAMZAOUI, M. BOUAZAOUI, N. AL HELOU, J. BAHOUT, Y. OUERDANE, A. BOUKENTER, S. GIRARD, J-Y. MICHALON, A. MORANA, R. MAHIOU, G. CHADEYRON, M. BENABDESSELAM, F. MADY, B. DUSSARDIER, W. BLANC
Projet SURFIN : nouveaux matériaux pour la SURveillance par Fibre optique des Installations Nucléaires
8e Journées sur les Fibres en Milieu Radiatif (FMR 2017), Dec 2017, Mons, Belgique

2016

D. BOYER, G. CHADEYRON, P. VIALAT, R. BOONSIN, R. MAHIOU
Development of phosphors for white light emitting diodes.
7th International Symposium on Optical Materials, Lyon, 1-4 mars 2016.

M. ABOUSSATAR, H. NAILI, D. ZAMBON, M. EL-GHOZZI, D. AVIGNANT
Synthesis, crystal structure and physico-chemical characterizations of the new Na_2CdPO_4F fluorophosphates.
5th Tunisian Crystallographic Meeting (TCM5), Hammamet (Tunisie), 20-24 mars 2016.

G. PALACIO, D. BOYER, S. H. PULCINELLI, C.V. SANTILLI, S. THERIAS, R. MAHIOU
New hybrid materials constituted of PEO and PPO based siloxanes: photostability study and embedding of Li^+ / Eu^{3+} ions.
European Materials Research Society Spring Meeting (E-MRS), Lille, 2-6 mai 2016.

R. BOONSIN, P. VIALAT, D. BOYER, G. CHADEYRON, R. MAHIOU
Development of rare-earth-free luminescent composites for blue-LED based lighting devices.
European Materials Research Society Spring Meeting (E-MRS), Lille, 2-6 mai 2016.

N. FRANCOLON, D. BOYER, F. LECCIA, E. JOUBERTON, A. WALTER, C. BORDEIANU, A. PARAT, D. FELDER-FLESCH, E. MIOT-NOIRAULT, J.M. CHEZAL, R. MAHIOU
Development of $NaYF_4$:Yb,Tm@dendrons nanoparticles for near infrared in vivo fluorescence imaging.
European Materials Research Society Spring Meeting (E-MRS), Lille, 2-6 mai 2016.

N. PRADAL, A. POTDEVIN, G. CHADEYRON, P. BONVILLE, R. MAHIOU
Enhancement of thermal behavior of $BaMgAl_{10}O_{17}:Eu^{2+}$ blue phosphors using a microwave assisted combustion synthesis process.
CIMTEC2016, Perugia (Italie), 5-9 juin 2016.

W. LTAIEF, A. MBAREK, M. EL-GHOZZI, D. ZAMBON, H. NAILI, M. FOURATI
Structural and luminescence properties of Eu^{3+} and Tb^{3+} rare earth fluorophosphates with general formula $LiY_{1+x}(PO_4)_xF_4$ (x = 2, 3).
Structure-Property Relationships in Solid State Materials (SPSSM-2016), Nantes, 1-6 juillet 2016.

A. BARROS, P. BOUTINAUD, G. CHADEYRON, R. MAHIOU
Degradation processes in the red emitting phosphor Na_2SiF_6-Mn^{4+} exposed to thermal and blue LED irradiation stresses.
19th Conference on Dynamical Processes in Excited States of Solids, Paris, 17-22 juillet 2016.

W. HAMI, D. ZAMBON, M. EL-GHOZZI, M. ELAATMANI, M. DAOUD, A. ZEGZOUTI
Synthesis and luminescence properties of pyrophosphate phosphors doped with rare earth.
6th International Conference and Exhibition on Materials Science and Engineering (IOM3), Atlanta (USA), 12-14 septembre 2016.

2015

M.A HASSAIRI, M. DAMMAK, D. ZAMBON, G.CHADEYRON
Spectroscopic and Judd-Ofelt analysis of Eu^{3+} doped $GdPO_4$ nanoparticles and nanowires.”
3rd International Conference on crystallography: "From symmetry to cristal", Hammamet (Tunisie),
26-29 mars 2015.

A. BOUKHRISS, D. BOYER, H. HANNACH, J.-P. ROBLIN, O. CHERKAOUI, S. GMOUH
Use of siloxane functionalized ionic liquids for treatment of cotton fabrics by the sol /gel process.
13th International Conference on the frontiers of polymers and advanced materials, Marrakech (Maroc), 30 mars – 2 avril 2015.

N. FRANCOLON, F. LECCIA, E. JOUBERTON, D. BOYER, I. MILADI, D. FELDER-FLESCH, S. BEGIN-COLIN,L. MOREL, E. MIOT-NOIRAULT, J-M. CHEZAL, R.MAHIOU
Novel hybrid nanoparticles using upconversion luminescence for in vivo imaging.
Nanotech France 2015, Paris, 15-17 juin 2015.

B. CAPOEN, H. EL HAMZAOUI, M. BOUAZAOUI, L. BIGOT, G. BOUWMANS, Y. OUERDANE, A. BOUKENTER, S. GIRARD, G. CHADEYRON, R. MAHIOU, C. MARCANDELLA, O. DUHAMEL
Innovative copper-doped glasses and fibers as sensitive materials for ionizing beam dosimetry.
ICOM 2015, 4th International Conference on the Physics of Optical Materials and Devices), Budva (Montenegro), 31 août – 4 septembre 2015.

M. A. HASSAIRI, A. GARRIDO HERNÁNDEZ, T. KALLEL, M. DAMMAK, D. ZAMBON, G. CHADEYRON A. POTDEVIN, D. BOYER, R. MAHIOU
Tuning blue-green-white up-conversion color in nano $GdPO_4$:Er/Yb/Tm phosphor.
International Meeting on Advanced Materials (MAM-2015), Hammamet (Tunisie), 7-9 septembre 2015.

A. BOUKHRISS, S. GMOUH, H. HANNACHE, J.-P. ROBLIN, O. CHERKAOUI, D. BOYER
Use of ionic liquids with siloxane functionalized cation for treatment of cotton fabrics by the sol /gel process.
5th International Conference on Intelligent Textiles & Mass Customisation (ITMC 2015), Casablanca (Maroc), 4-6 novembre 2015.

A. NADI, S. GMOUH, H. HANNACHE, D. BOYER
"Synthesis and characterization of functionalized ferromagnetic nanoparticles and their application for the degradation of textile effluent"
5th International Conference on Intelligent Textiles & Mass Customisation (ITMC 2015), Casablanca (Maroc), 4-6 novembre 2015.

W. LTAIEF, A. MBAREK, M. EL-GHOZZI, D. ZAMBON, H. NAILI
Synthesis, characterization and luminescent properties of New lithium fluorophosphates $LixY(PO_4)_{1-x}F_{4x} : Eu^{3+}$
International Solid State Chemistry Conference, ISSCC 2015, Zarzis (Tunisie), 21-23 décembre 2015.

2014

A. BARROS, G. CHADEYRON, P. BOUTINAUD, R. DELONCLE, J. DESCHAMPS, R. MAHIOU
About the degradation of $Na_2SiF_6:Mn^{4+}$ phosphor for WLED applications.
8th French - Spanish Meeting Solid State Chemistry and Physics, Castellón (Espagne), 2-4 avril 2014.

R. BOONSIN, G. CHADEYRON, J-Ph. ROBLIN, D. BOYER& R. MAHIOU
Eco-friendly lighting system based on LEDs and organic phosphors.
8th French - Spanish Meeting Solid State Chemistry and Physics, Castellón (Espagne), 2-4 avril 2014.

M.A. HASSAIRI, M. DAMMAK, D. ZAMBON, G.CHADEYRON, D. BOYER & R.MAHIOU
White up-conversion emission in $Er^{3+}/Yb^{3+}/Tm^{3+}$ doped YP_5O_{14}ultraphosphate.
8th French - Spanish Meeting Solid State Chemistry and Physics, Castellón (Espagne), 2-4 avril 2014.

M.A. HASSAIRI, M. DAMMAK, D. ZAMBON, G. CHADEYRON, D. BOYER, R.MAHIOU
Optical spectroscopy of tri-doped Er/Tm/Yb: YP_5O_{14} crystals synthesized by solid state method.
International Conference on Spectroscopy and Applications, Hammamet (Tunisie), 2-4 mai 2014 (Prix de la meilleure communication jeune).

N. FRANCOLON, L. LECCIA, D. BOYER, L. MOREL, R. MAHIOU
Toward a new generation of targeted fluorescent nanoparticles for the prostate cancer diagnosis.
EMRS 2014 spring meeting, Lille, 26-30 mai 2014.

N. PRADAL, A. CHAPEL, D. BOYER, G. CHADEYRON, S. THERIAS, R. MAHIOU
Investigations on PVP/pechini derived Y3BO6:Eu3+, a red luminescent composite suitable for new lighting devices based on UV-LEDs.
EMRS 2014 spring meeting, Lille, 26-30 mai 2014.

N. PRADAL, G. CHADEYRON, S. THERIAS, R. MAHIOU
Poly(N-vinyl pyrrolidone)/$BaMgAl_{10}O_{17}:Eu^{2+}$: Development of a blue luminescent nanocomposite suitable for eco-energetic lighting devices (LEDs).
EMRS 2014 spring meeting, Lille, 26-30 mai 2014.

B. CAPOEN, H. EL HAMZAOUI, L. BIGOT, G. BOUWMANS, Y. OUERDANE, A. BOUKENTER, S. GIRARD, G. CHADEYRON, R. MAHIOU, F. CROP, T. SARRAZIN & M. BOUAZAOUI
Sol-gel derived ionic copper-doped Glasses and microstructured optical fibers: a potential radiation dosimeter.

RAD 2014 - Second International Conference on Radiation and Dosimetry in Various Fields of Research, Nis, (Serbie), 27-30 mai 2014.

G. CHADEYRON, R. BOONSIN, J-P. ROBLIN, D. BOYER, R. MAHIOU
Development of Organic Phosphors for White Emitting blue and near UV LEDs.
CIMTEC 2014, 6th forum on new materials, Monte CatiniTerme (Italie), 15-19 juin 2014.

A. ABOULAICH, M. MICHALSKA, R. SCHNEIDER, A. POTDEVIN, J. DESCHAMPS, R. DELONCLE, G. CHADEYRON, R. MAHIOU
A luminescent bi-layered structure for warm and high CRI WLED.
17th International Conference on Luminescence, Wroclaw (Pologne), 13-18 juillet 2014.

A. CHAPEL, N. PRADAL, P.-O. BUSSIERE, R. MAHIOU, G. CHADEYRON, S. THERIAS
Influence of phosphors on the photostability of polymer: Applications for eco-energetic lighting devices (LEDs).
ACS 248th meeting, San Francisco (USA), 10-14 août 2014.

A. CHAPEL, G. CHADEYRON, R. MAHIOU, S. THERIAS
Luminescent composite phosphors/polymer: Impact of red phosphor($Y_3BO_6:Eu^{3+}$) on EVA properties and photoageing.
MoDeSt 2014, (4th International Conference on Polymer Modification, Degradation and Stabilisation), Portoroz (Slovénie), 30 août - 4 septembre 2014.

A. GARRIDO HERNÁNDEZ, A. POTDEVIN, D. BOYER, G. CHADEYRON, A. GARCÍA MURILLO, F. DE J. CARRILLO ROMO, R. MAHIOU
Solvothermal synthesis of $(Y,Gd)PO_4:Tb^{3+}$ for display applications.
4th International Solvothermal and Hydrothermal Association Conference, Bordeaux, 26-29 octobre 2014.

ANTHONY CHAPEL, GENEVIÈVE CHADEYRON, RACHID MAHIOU & SANDRINE THERIAS
"Luminescent composite phosphors/polymer: Impact of red phosphor ($Y_3BO_6:Eu^{3+}$) on EVA properties and photoageing."
Congrès MODEST, Portorož (Slovénie), 31 Aout-4 Septembre 2014.

NATHALIE PRADAL, AUDREY POTDEVIN, NATHALIE CAPERAA, GENEVIÈVE CHADEYRON, SANDRINE THERIAS AND RACHID MAHIOU
"Synthesis, shaping and characterizations of $Y_3Al_5O_{12}:Tb^{3+}$ nanopowders and coatings suitable for eco-energetic lighting devices (LEDs)."
4th International Solvothermal and Hydrothermal Association Conference, Bordeaux, 26-29 octobre 2014.

Communications dans un congrès national

2023

G. ZERBIB, G. CHADEYRON, F. LEROUX**, D. BOYER**
Hydroxydes Doubles Lamellaires luminescents pour des applications dans des dispositifs à LEDs
Groupe Français d'Etude des Composés d'Insertion (GFECI), 27-30 mars 2023, Biarritz.

P. MARTIN, A. POTDEVIN, G. CHADEYRON, D.BOYER
Elaboration et caractérisation de nanoluminophores destinés à des dispositifs à micro-LED
Séminaire annuel du Centre International De Recherche "Innovative Transportation And Production Systems " (CIR ITPS), 6 avril 2023, Clermont-Ferrand

P. MARTIN, **A. POTDEVIN**, **G. CHADEYRON**, **D. BOYER**
Room temperature synthesis of green emitting lead-free perovskite inspired manganese halides
Journées Perovskites Halogénées (JPH), 31 mai – 2 juin 2023, Biarritz.

2022

L. MARICHEZ, E. GAMET, I. VERRIER, **D. ZAMBON**, N. CRESPO-MONTEIRO, **G. CHADEYRON,** Y. JOURLIN
Microstructuration de revêtements sol-gel luminescents par nanoimprint
14ème Journée Sol-Gel et chimie Liquide Auvergne Rhône-Alpes, JSGAuRA14, 14 avril 2022, Saint-Etienne.

J. CATHALAN, M. SALAÜN, A. IBANEZ, **A. POTDEVIN, G. CHADEYRON**, I. GAUTIER-LUNEAU
Développement de luminophores et revêtements composites sans terres rares à base de borate d'aluminium
14ème Journée Sol-Gel et chimie Liquide Auvergne Rhône-Alpes, JSGAuRA14, 14 avril 2022, Saint-Etienne.

A. MARTIN, **A. POTDEVIN, F. RÉVERET,** E. CENTENO, E. SILAEVA, Y. JOURLIN, **G. CHADEYRON**, M. LANGLET
Zinc oxide nanowires gratings by soft chemistry for optical applications
14ème Journée Sol-Gel et chimie Liquide Auvergne Rhône-Alpes, JSGAuRA14, 14 avril 2022, Saint-Etienne.

2021

M. SALAÜN, J. CATHALAN, I. GAUTIER-LUNEAU, A. IBANEZ, A. POTDEVIN, G. CHADEYRON, J.-M. MOUESCA ET V. MAUREL
Identification d'hydrocarbures aromatiques polycycliques (HAP) luminescents dans des luminophores aluminoborates synthétisés par chimie douce.
51èmes Journées de Calorimétrie et d'Analyse Thermique, Conférence virtuelle, 21-24 juin 2021.

J. CATHALAN, M. SALAÜN, A. IBANEZ, A. POTDEVIN, G. CHADEYRON, I. GAUTIER-LUNEAU
Nouvelle génération de luminophores sans terre rare à base de borate d'aluminium pour des applications LEDs.
Eclairage 2021, Troyes, 29-30 septembre 2021.

A. DIOP, D. NGOUE, A. MAHAMMOU, B. DIALLO, A. CARLING-PLAZA, H. GLENAT, S. QUOIZOLA, A. BOUSQUET, A. GOULLET, T. SAUVAGE, A. SOUM-GLAUDE, É. TOMASELLA, L. THOMAS
Plasma-deposited W/SiCH nanocomposite multilayers as high temperature air-stable solar selective absorber coatings for concentrated solar power receivers.
Journées de la Division Chimie du Solide, SCF, Conférence en ligne, 15-19 novembre 2021.

A. BOURZIGUI, F. GROS, D. BOYER, G. CHADEYRON, J.-F. CORNET, J. DAUCHET, A. POTDEVIN, T. VOURC'H
Theoretical and experimental study of solar H_2 production in photo-electrochemical cells.
3èmes Journées Annuelles TAMARYS, Bordeaux, 29-30 novembre et 1er décembre 2021.

2019

N. Amara*, A. Potdevin, M. Messaoud, D. Riassetto, G. Chadeyron Michel Langlet
« Elaboration de structures composites $Y_3Al_5O_{12}$:Ce /nanofils de ZnO pour des applications dans le domaine de l'éclairage à LEDs. »
Réunion du Groupe Français des Luminophores, Grenoble, 20 juin 2019.

2018

P. LEGENTIL, G. CHADEYRON, S. THERIAS, F. LEROUX
L'hydroxyde double lamellaire, stabilisateur de luminophores pour l'éclairage LED.
Groupe Français d'Etude des Composés d'Insertion (GFECI 2018), Le Touquet, 26-29 mars 2018.

M. KHAYWAH, A. POTDEVIN, A. MOREAU, G. CHADEYRON, F. RÉVERET, E. CENTENO, R. MAHIOU
Influence of Ag nanocubes on the photoluminescence behaviour of YAG:Ce coatings.
Journée Sol-Gel et Chimie Liquide Auvergne Rhône-Alpes, Saint-Etienne, 5 avril 2018.

N. AMARA, A. POTDEVIN, M. MESSAOUD, D. RIASSETTO, G. CHADEYRON, M. LANGLET
Revêtements nano-composites nanofils / nanoparticules destinés à l'éclairage à LEDs et à la photocatalyse.
Journée Sol-Gel et Chimie Liquide Auvergne Rhône-Alpes, Saint-Etienne, 5 avril 2018.

A. CORDONNIER, J. M. CHEZAL, M. QUINTANA, M. VIVIER, A. BRIAT, F. DEGOUL, S. BESSE, L. MAZUEL, G. CHADEYRON, R. MAHIOU, E. MIOT-NOIRAULT, D. BOYER
Conception et validation de nanoparticules multimodales pour l'imagerie des cancers de la prostate.
Journée Sol-Gel et Chimie Liquide Auvergne Rhône-Alpes, Saint-Etienne, 5 avril 2018.

2017

M. ABOUSSATAR, A. MBAREK, H. NAILI, M. EL-GHOZZI, G. CHADEYRON, D. AVIGNANT, D. ZAMBON
Phase equilibria in the NaF-CdO-$NaPO_3$ system at 873 K.
Nanomatériaux, Microstructures et Propriétés, Hammamet (Tunisie), 22-24 mars 2017.

S. SEBAI, S. HAMMAMI, A. MEGRICHE, D. ZAMBON, R. MAHIOU
Luminescence d'ions de terres rares dans des polyphosphates
JNCO Formation 2017, "Cristaux, Micro-nano-structures et Dispositifs pour l'Optique", Paris, 4-6 septembre 2017.

P. LEGENTIL, G. CHADEYRON, S. THERIAS ET F.LEROUX
" Des luminophores sans terres rares pour des dispositifs d'éclairage à base de LEDs. »
Groupe Français des luminophores GFL2017-13 novembre 2017, LYON

P. LEGENTIL, G. CHADEYRON, S. THERIAS ET F.LEROUX
« LED et luminophores sans terres rares, une solution verte pour l'éclairage de demain. »
Colloque FGL 6-8 décembre 2017 LYON

2016

M. ABOUSSATAR, H. NAILI, M. EL-GHOZZI, K. GUERIN, D. AVIGNANT, D. ZAMBON
Etude structurale du nouveau fluorophosphate Na_2CdPO_4F et propriétés cristallochimiques et électrochimiques de différentes compositions $Na_2Cd_{1-X}Mn_XPO_4F$.
Groupe Français d'Etude des Composés d'Insertion (GFECI), Valençay, 14-17 mars 2016.

A. VALETTE, P. GAUTIER, L. OMAR, T. CORNIER, Y. ZHU, A. APOSTOLUK, B. MASENELLI, G. CHADEYRON, A. POTDEVIN, S. DANIELE
Hybrid ZnO mesospheres for white LED and photovoltaic markets.
12ème Journée Sol-Gel et chimie liquide Rhône-Alpes Auvergne (JSGRAA12), Saint-Etienne, 24 mars 2016.

G. PALACIO, D. BOYER, S. H. PULCINELLI, C. V. SANTILLI
Study of electrical/structural properties for a hybrid blend materials Li+ doped based PEO/PPO – siloxanes.
12ème Journée Sol-Gel et chimie liquide Rhône-Alpes Auvergne (JSGRAA12), Saint-Etienne, 24 mars 2016.

A. NADI, D. BOYER, S. GMOUH, H. HANNACHE
Synthèse et caractérisation de nanoparticules magnétiques et leur application dans le développement de bioréacteur.
12ème Journée Sol-Gel et chimie liquide Rhône-Alpes Auvergne (JSGRAA12), Saint-Etienne, 24 mars 2016.

S. SEBAI, S. HAMMAMI, A. MEGRICHE, D. ZAMBON, R. MAHIOU
Synthèse, caractérisation structurale et propriétés de luminescence de polyphosphates $Li_xNa_{(1-x)}Sm(PO_3)_4$ sous excitation VUV.
UVX 2016, 13th Conference of coherent and incoherent sources UV, VUV, and X, applications and recent developments, Chinon, 11-14 octobre 2016.

2015

G. CHADEYRON, A. POTDEVIN, D. BOYER, J.-P. ROBLIN, P. BOUTINAUD, R. BOONSIN, A. BARROS, R. MAHIOU
La chimie en solution pour des luminophores plus performants.
11ème Journée sol-gel Rhône-Alpes-Auvergne, Saint-Etienne, 26 mars 2015.

R. BOONSIN, G. CHADEYRON, J.-P. ROBLIN, D. BOYER, R. MAHIOU
Des luminophores organiques sans terres rares pour des LEDs blanches.
11ème Journée sol-gel Rhône-Alpes-Auvergne, Saint-Etienne, 26 mars 2015.

A. BOUKHRISS, D.BOYER, H.HANNACH, J.-P. ROBLIN, O. CHERKAOUI, S. GMOUH
Greffage des liquides ioniques sur des materiaux textiles par voie sol / gel.
11ème Journée sol-gel Rhône-Alpes-Auvergne, Saint-Etienne, 26 mars 2015.

R. BOONSIN, G. CHADEYRON, J.P. ROBLIN, D. BOYER, R. MAHIOU
Poudres et films composites luminescents sans terres rares pour des dispositifs d'éclairage à base de LEDs.
Optique Bretagne 2015, Rennes, 6-9 juillet 2015.

A. CHAPEL, G. CHADEYRON, R. MAHIOU, S. THERIAS
Etude de la stabilité photochimique de revêtements composites luminescents pour l'éclairage LEDs.
Réunion du Groupe Français des Luminophores (GFL2015), Clermont-Ferrand, 15 octobre 2015.

R. BOONSIN, G. CHADEYRON, D. BOYER, J.-P. ROBLIN, R. MAHIOU
Leds et luminophores sans terres rares : une solution pour les luminaires de demain.
Réunion du Groupe Français des Luminophores (GFL2015), Clermont-Ferrand, 15 octobre 2015.

2014

N. FRANCOLON, L. LECCIA, D.BOYER, L. MOREL, R. MAHIOU
Synthèse de nanoparticules luminescentes pour le théranostic.
10ème Journée sol-gel Rhône-Alpes-Auvergne, Saint-Etienne, 11 avril 2014.

A. BOUKHRISS, D. BOYER, H.HANNACH, J.-P. ROBLIN, O. CHERKAOUI, S. THERIAS, S. GMOUH
Elaboration de revêtements hydrophobes par le procédé sol-gel sur des textiles.
10ème Journée sol-gel Rhône-Alpes-Auvergne, Saint-Etienne, 11 avril 2014.

A. CHAPEL, G. CHADEYRON, R. MAHIOU, S. THERIAS
Synthèse, caractérisation, mise en forme et stabilité photochimique de composites polymère/luminophore pour l'éclairage à base de LEDs.
10ème Journée sol-gel Rhône-Alpes-Auvergne, Saint-Etienne, 11 avril 2014.

A. POTDEVIN, P.O. BUSSIERE, G. CHADEYRON, S. THERIAS R. MAHIOU
Evolution des propriétés mécaniques et optiques de revêtements luminescents PVP/YAG :Tb en fonction du taux de charge et du photovieillissement.
Matériaux 2014, Montpellier, 24-28 novembre 2014.

POSTERS

2023

A. TRAN, R. VALLEIX, F. CISNETTI, D. BOYER
Facile InP/ZnS QDs encapsulation in MOF-5 matrices: towards solid state luminescence
C'Nano 2023, 15-17 mars 2023, Poitiers.

P. MARTIN, A. POTDEVIN, G. CHADEYRON, D. BOYER
Room temperature synthesis of lead-free perovskite inspired manganese halides – from bulk to nano
C'Nano 2023, 15-17 mars 2023, Poitiers.

A. MARTIN, **A. POTDEVIN**, **F. RÉVERET**, D. RIASSETTO, M. LANGLET, **G. CHADEYRON.**
Elaboration of multiscale nanostructured luminescent coatings by combining ZnO nanowires and $Y_3Al_5O_{12}:Ce^{3+}$ ***luminescent*** *coatings*
C'Nano 2023, 15-17 mars 2023, Poitiers.

F. CISNETTI, A. SATHYANARAYANA
Copper(I)-NHC complexes with NHC-picolyl ligands: synthesis and solid-state Luminescence
Gecom-Concoord 2023, 22-26 Mai 2023, Fournols

N. N'GAZA, C. MARESTIN, R. MERCIER, **D. BOYER, A. BARROS**
Synthesis and study of aromatic and heterocyclic luminescent compounds and polymers
STEPI12 - Polyimides & High Performance Materials, 4-7 juin 2023, Montpellier.

V. GALLON, T. PINTO-NEVES, J.-M. CHEZAL, S. TARRIT, S. BESSE, **A. POTDEVIN**, D. RICHARD, J. ROUANET, E. MIOT-NOIRAULT, B. MAUNIT, M. QUINTANA
Functionalization of gold nanoparticles by SPAAC reaction for PDT treatment of Dubreuilh's melanoma
4ème Journée Française sur la Thérapie Photo dynamique, 2 novembre 2023, Paris.

2022

A. POTDEVIN, **D. BOYER, D. ZAMBON, R. MAHIOU & G. CHADEYRON**
Development of sol-gel derived phosphors for optical applications
Sol-Gel 2022, 24-29 juillet 2022, Lyon.

J. CATHALAN, **A. POTDEVIN,** M. SALAÜN, A. IBANEZ, I. GAUTIER-LUNEAU, **G. CHADEYRON**
Development of rare earth-free aluminium borate-based phosphors and composite films
Sol-Gel 2022, 24-29 juillet 2022, Lyon.

F. REVERET, **M. KHAYWAH**, **A. POTDEVIN**, **R. MAHIOU** , Y. OUERDANE, A.DESERT, S.PAROLA , **G. CHADEYRON**, E. CENTENO, R. SMAALI AND A. MOREAU
Light extraction and injection enhancement using metallic nanocubes
NANOP 2022, 25-27 octobre 2022, Paris

2021

R. VALLEIX, D. BOYER, F. CISNETTI, P. BOUTINAUD, F. LEROUX, Q. ZHANG, F. RÉVERET, H. OKUNO, G. CHADEYRON
UPDATE: synthesis and characterization of InP-based quantum dots for optical applications.
Summer school "Exciting nanostructures: Characterizing advanced confined systems", Bad Honnef (Allemagne), 18-23 juillet 2021.

2020

Z. SMARA, Y. CHEROURA, D. BOYER*, A. POTDEVIN, A. CHAFA, O. ZIANE, R. MAHIOU
"Coprecipitation synthesis and optical characterization of Tb^{3+} and Tb^{3+}-Yb^{3+}doped α-$NaYF_4$ nanophosphors"
17th International Conference on Nanoscience and Nanotechnologies (NN20)
7-10 Juillet 2020, Thessalonique, Grèce (en distanciel)

Y. CHEROURA, Z. SMARA, A. POTDEVIN*, D. BOYER, A. CHAFA, O. ZIANE, R. MAHIOU
"Evidence of visible quantum cutting phenomenon in co-precipitation derived Eu^{3+} doped ß-$NaGdF_4$ nanorods"
17th International Conference on Nanoscience and Nanotechnologies (NN20)
7-10 Juillet 2020, Thessalonique, Grèce (en distanciel)

2019

A. Cordonnier, J-M. Chezal, S. Besse, A. Briat, F. Degoul, R. Mahiou, A. Maisonial-Besset, B. Maunit, L. Mazuel, M. Quintana, M. Vivier, E. Miot-Noirault, D. Boyer
"Preliminary evaluations of PSMA-targeted NIR upconverting nanoparticles for dual scintigraphic/fluorescence-guided surgery in prostate cancer"
The SFNano – C'Nano joint meeting 2019, Dijon, 10-12 décembre 2019.

N. Amara*, A. Potdevin, M. Messaoud, D. Riassetto, G. Chadeyron Michel Langlet
« Nanocomposite and nanostructured coatings for LED lighting and photocatalytic applications »,
EMRS Spring Metting 2019, Nice, 27-31 mai 2019.

N. Amara*, A. Potdevin, M. Messaoud, D. Riassetto, J. Bouaziz, G. Chadeyron Michel Langlet
« Nanostructured coatings for LED lighting applications »
International Conference On Advanced Materials, CIMA 2019, Hammamet (Tunisie), 25-28 octobre 2019. *Prix de la meilleure affiche*

2018

A. H. NISSRINE, J. BAHOUT, H. EL HAMZAOUI, B. CAPOEN, G. BOUWMANS, G. CHADEYRON, R. MAHIOU, Y. OUERDANE, A. BOUKENTER, S. GIRARD, C. MARCANDELLA, O. DUHAMEL, M. BOUAZAOUI.
Sol–gel silica glasses for radiation dosimetry.
5th International Conference on the Physics of Optical Materials and Devices, Igalo (Montenegro), 27-31 août 2018.

M. SERAICHE, L. GUERBOUS, C. DUJARDIN, A. POTDEVIN, R. MAHIOU
Luminescence and Scintillation properties of Ce-doped $GdBO_3$ nanophosphor synthesized by aqueous sol-gel method.
5th International Conference on the Physics of Optical Materials and Devices, Igalo (Montenegro), 27-31 août 2018.

M. KHAYWAH, A. POTDEVIN, A. MOREAU, Y. OUERDANE, G. CHADEYRON, F. REVERET, E. CENTENO, R. MAHIOU
Surface Plasmonic effect of Ag Nanocubes on YAG:Ce^{3+} Photoluminescence
C'Nano 2018, Toulon, 11-13 décembre 2018.

2017

D. BOYER, F. LECCIA, E. JOUBERTON, D. FELDER-FLESCH, S. BEGIN, E. MIOT-NOIRAULT, J.M. CHEZAL, R. MAHIOU
Dendronized $NaYF_4$:Yb,Tm nanoparticles for near infrared in vivo fluorescence imaging.
5th International Conference on Multifunctional, Hybrid and Nanomaterials, Lisbonne (Portugal), 5-10 mars 2017.

G. PALACIO, D. BOYER, S. THERIAS, S. H PULCINELLI, R. MAHIOU, C. V. SANTILLI
Effect of the UV irradiation damage on the optical and structural properties of europium doped ureasilpolyether hybrid materials.
5th International Conference on Multifunctional, Hybrid and Nanomaterials, Lisbonne (Portugal), 5-10 mars 2017.

M. ABOUSSATAR, A. MBAREK, H. NAILI, G. CHADEYRON, D. AVIGNANT, D. ZAMBON
The luminescence and structural characteristics of Eu^{3+} doped $NaCdPO_4$ phosphor.
Nanomatériaux, Microstructures et Propriétés, Hammamet (Tunisie), 22-24 mars 2017.

S. SEBAI, S. HAMMAMI, A. MEGRICHE, D. ZAMBON, R. MAHIOU
Luminescence d'ions de terres rares dans des polyphosphates.
JNCO Formation 2017, "Cristaux, Micro-nano-structures et Dispositifs pour l'Optique", Paris, 4-6 septembre 2017.

M. SERAICHE, L. GUERBOUS, R. MAHIOU, C. DUJARDIN
Luminescence and Scintillation properties of Ce-doped $GdBO_3$ nanophosphor synthesized by aqueous sol-gel method.
International Conference on Scintillating Materials and their Applications –Scint2017, Chamonix, 18-22 septembre 2017.

L. OUAREZ, A. CHELOUCHE, T. TOUAM, D. BARBA, R. MAHIOU, D. DJOUADI, F. ROSEI
Structural, morphological and optical investigation of sol-gel Au-doped ZnO nanostructured thin films.
Applied Nanotechnology and Nanoscience International Conference – ANNIC 2017, Rome (Italie), 18-20 octobre 2017.

2016

N. FRANCOLON, F. LECCIA, E. JOUBERTON, D. BOYER, I. MILADI, D. FELDER-FLESCH, S. BEGIN-COLIN, L. MOREL, E. MIOT-NOIRAULT, J-M. CHEZAL, R.MAHIOU
Novel hybrid nanoparticles using upconversion luminescence for in vivo imaging.
Forum de la Recherche en Cancérologie Rhône-Alpes Auvergne, Lyon, 29-30 mars 2016.

M. ABOUSSATAR, A. MBAREK, H. NAILI, M. EL-GHOZZI, G. CHADEYRON, D. AVIGNANT, D. ZAMBON
Synthesis, crystal structure and Eu^{3+} optical studies of a new cadmium fluorophosphate with formula Na_2CdPO_4F.
Structure-Property Relationships in Solid State Materials (SPSSM-2016), Nantes, 1-6 juillet 2016.

2015

N. FRANCOLON, L. LECCIA, E. JOUBERTON, D. BOYER, L. MOREL, E. NOIRAULT, J-M. CHEZAL, R.MAHIOU
Nanoparticules à fluorescence anti-Stokes pour l'imagerie de fluorescence optique non invasive.
Forum de la Recherche en Cancérologie Rhône-Alpes Auvergne, Lyon, 7-8 avril 2015.

N. FRANCOLON, F. LECCIA, E. JOUBERTON, D. BOYER, I. MILADI, DELPHINE FELDER-FLESCH, SYLVIE BEGIN-COLIN, L. MOREL, E. MIOT-NOIRAULT, J-M. CHEZAL, R.MAHIOU
Up-conversion emissions in water soluble Yb^{3+}, Tm^{3+}, Gd^{3+} doped β-$NaYF_4$ nanoparticles for in vivo theranostic.
ICOM 2015, 4th International Conference on the Physics of Optical Materials and Devices), Budva (Montenegro), 31 août – 4 septembre 2015.

2014

A.GARRIDO HERNÁNDEZ, A. POTDEVIN, D. BOYER, G. CHADEYRON, A. GARCÍA MURILLO, F. DE J. CARRILLO ROMO, R. MAHIOU
White light emitting nanocomposite films constituted of lanthanide orthophosphates nanophosphors dispersed in silicon.
CIMTEC 2014, 6th forum on New Materials, Monte CatiniTerme (Italie), 15-19 juin 2014.

A. BARROS, R. DELONCLE, J. DESCHAMPS, P. BOUTINAUD, G. CHADEYRON, R. MAHIOU, E. CAVALLI, M. G. BRIK
Optical properties and electronic band structure of $BiMg_2PO_6$, $BiMg_2VO_6$, $BiMg_2VO_6:Pr^{3+}$ and $BiMg_2VO_6:Eu^{3+}$.
17th International Conference on Luminescence, Wroclaw (Pologne), 13-18 juillet 2014.

P. ADUMEAU, D. BOYER, J.-L. CANET, A. GAUTIER, R. MAHIOU
Two-photon absorption properties of monodisperse silica nanoparticles doped with dipicolinic acid-based luminescent Eu^{3+} complexes.
17th International Conference on Luminescence, Wroclaw (Pologne), 13-18 juillet 2014.

Articles de vulgarisation

2015

G. Chadeyron et A ; Potdevin :
La nouvelle tribune UBP dans la catégorie Têtes Chercheuses du HuffPost : **LEDs et luminophores : un duo gagnant pour l'éclairage de demain**
http://www.huffingtonpost.fr/genevieve-chadeyron/leclairage-de-demain-sera-a-base-de-leds-et-luminophores_b_8029678.html?utm_hp_ref=tetes-chercheuses- septembre 2015

Geneviève Chadeyron
Grand Angle : Des luminophores associés à des LEDs pour répondre aux exigences de l'éclairage de demain."
Juillet 2015.

P. Adumeau, F. Leccia, D. Boyer, J-L. Canet, A. Gautier, L. Morel, T. Gefflaut & R. Mahiou
Nanoparticules hybrides pour le marquage de cellules cancéreuses : L'imagerie médicale entre dans l'ère des *nanotechnologies. L'Actualité Chimique, (2015),* ***395****, 23-28.*

2014

R. MAHIOU, G. CHADEYRON, D. BOYER, A. POTDEVIN, P. BOUTINAUD, D. ZAMBON, J-PH. ROBLIN.
Quand la lumière habille les objets (**http://www.univ-bpclermont.fr/article2520.html**) bulletin actualités scientifiques de l'UBP, 7 Février 2014.

A. ABOULAICH, A. POTDEVIN, **G. CHADEYRON**, R. MAHIOU
« Des matériaux pour l'éclairage de demain »
Article publié en juin 2014 dans la « Minute recherche » - http://www.univ-bpclermont.fr/article2724.html

R. Boonsin, **G. Chadeyron**, J.-P. Roblin, D. Boyer, R. Mahiou
« Développement de luminophores organiques sans terres rares pour l'éclairage éco-énergétique à base de LEDs. »
Article publié dans « l'Actualité Chimique », N°390 novembre 2014, L'Actualité Chimique, (2015), **390**, 39-41.

SEMINAIRES

2023

D. BOYER
Nanophosphors for optical applications
Laboratoire de Physique et Chimie des Nano-Objets (LPCNO), 9 mars 2023, Toulouse.

2022

F. CISNETTI
Des complexes auto-fonctionnalisables à un fluorophore organique original : les surprises de la combinaison NHC / cuivre / azoture.
ICOA UMR 7311 (Université d'Orléans/CNRS), 19 mai 2022.

2019

G. Chadeyron, A. Potdevin : Webinaire organisé par le Cluster Lumière () :
« Synthèse et mise en forme de luminophores destinés aux domaines de l'optique »
30 avril 2019, https://www.clusterlumiere.com/evenement/webinaire-synthese-et-mise-en-forme-de-luminophores/

R.Mahiou
« Le photovoltaïque: principe, état de l'art, tendances et perspectives»
31 Octobre 2019, USTHB, Alger

D. Boyer
"Recent Advancements in Luminescent Materials and Their Applications in Everyday Life"
Technological University Dublin (TUD), Dublin (Irlande), 23 mai 2019.

D. Boyer
"Development of luminescent materials for current and future applications"
Chiang Mai University (CMU), Chiang Mai (Thailand), 4 décembre 2019.