

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

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S. MAHLIK*, M. AMER, P. BOUTINAUD*
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A. POTDEVIN*, V. BRIOIS, N. CAPERAA, C. V. SANTILLI, G. CHADEYRON, R. MAHIOU
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The 4th International Conference on the Physics of Optical Materials and Devices, ICOM2015, Budva, Montenegro, August 31- September 4th, 2015, Preface
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2015

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2014

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Ce-Doped YAG Nanophosphor and Red Emitting CuInS₂/ZnS Core/Shell Quantum Dots for Warm White Light-Emitting Diode with High Color Rendering Index.
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Optical properties and electronic band structure of BiMg₂PO₆, BiMg₂VO₆, BiMg₂VO₆:Pr³⁺ and BiMg₂VO₆:Eu³⁺.
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Tunable luminescence of Bi³⁺-doped YP_xV_{1-x}O₄ (0 ≤ x ≤ 1).
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P. BOUTINAUD
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Effects of densification atmosphere on optical properties of ionic copper-activated sol-gel silica glass: towards an efficient radiation dosimeter.
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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)

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2022

D. KYRGINAS, G. LEDRU, D. BOYER, G. CHADEYRON, B. GLORIEUX, G. ZISSIS
Yellow YAG: Ce³⁺ 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](https://doi.org/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 Sb³⁺ and Bi³⁺ 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 HAMZAQUI, MOHAMED BOUZAQUI, LAURENT BIGOT, GERAUD BOUWMANS, YUCEF 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 HAMZAQUI, L. BIGOT, G. BOUWMANS, B. CAPOEN, Y. OUERDANE, A. BOUKENTER, S. GIRARD, **G. CHADEYRON**, R. MAHIOU, F. CROP, S. THIERRY, M. BOUZAQUI

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

2022

P. BOUTINAUD

CuLaO₂ 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. BOUZAOUJ, M. CIESLIKIEWICZ-BOUET, H. EL HAMZAOUJ, 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

Pr³⁺-to-Nb⁵⁺ charge transfer in LiNbO₃ 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 Bi³⁺ ions.

International Symposium on Structure-Property Relationships in Solid State Materials, Pescara (Italie), 8-12 juin 2018.

H. EL HAMZAOUJ, B. CAPOEN, N. AL HELOU, J. BAHOUT, G. BOUWMANS, Y. OUERDANE, A. BOUKENTER, S. GIRARD, C. MARCANDELLA, O. DUHAMEL, G. CHADEYRON, R. MAHIOU, M. BOUZAOUJ

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.

Workshop 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 Eu²⁺-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.
6^{ème} 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.
Xle Colloque Rayons X & Matière, Minatec, RX 2015, Grenoble, 1-4 décembre 2015.

2014

P. BOUTINAUD
Spectroscopic investigations on SrAl₂O₄ 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.

Séminaires

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.

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 Physics 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 Explorhêteurs, bâtisseurs du futur, Clermont-Ferrand, 22 novembre 2018.

2017

D. BOYER

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

A. POTDEVIN

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14^{ème} Journée Sol-Gel et chimie Liquide Auvergne Rhône-Alpes, JSGAuRA14, 14 avril 2022, Saint-Etienne.

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Zinc oxide nanowires gratings by soft chemistry for optical applications
14^{ème} 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.
51^{èmes} 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/SiCN 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. VOUREC'H
Theoretical and experimental study of solar H_2 production in photo-electrochemical cells.

3^{èmes} Journées Annuelles TAMARYS, Bordeaux, 29-30 novembre et 1^{er} 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-NOIRAUT, 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-NaPO₃ 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 cristallographiques 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.

12^{ème} 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.

12^{ème} 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.

12^{ème} 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 $\text{Li}_x\text{Na}_{(1-x)}\text{Sm}(\text{PO}_3)_4$ 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.

11^{ème} 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.

11^{ème} 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 matériaux textiles par voie sol / gel.

11^{ème} 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.

10^{ème} 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.

10^{ème} 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.

10^{ème} 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

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

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 Tb³⁺ and Tb³⁺-Yb³⁺doped α-NaYF₄ 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 Eu³⁺ doped β-NaGdF₄ 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 Meeting 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. BOUZAOUi.
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 GdBO₃ 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:Ce³⁺ Photoluminescence
C'Nano 2018, Toulon, 11-13 décembre 2018.

2017

D. BOYER, F. LECCIA, E. JOUBERTON, D. FELDER-FLESCHE, S. BEGIN, E. MIOT-NOIRAUULT, J.M. CHEZAL, R. MAHIOU
Dendronized NaYF₄: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-FLESCHE, S. BEGIN-COLIN, L. MOREL, E. MIOT-NOIRAUT, 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 $\text{Na}_2\text{CdPO}_4\text{F}$.
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. NOIRAUT, 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-FLESCHE, SYLVIE BEGIN-COLIN, L. MOREL, E. MIOT-NOIRAUT, J-M. CHEZAL, R. MAHIOU
Up-conversion emissions in water soluble Yb^{3+} , Tm^{3+} , Gd^{3+} doped $\beta\text{-NaYF}_4$ 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 Catini Terme (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 , $\text{BiMg}_2\text{VO}_6:\text{Pr}^{3+}$ and $\text{BiMg}_2\text{VO}_6:\text{Eu}^{3+}$.
17th International Conference on Luminescence, Wrocław (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, Wrocław (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.

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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

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.