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

P. MARTIN, A. POTDEVIN, G. CHADEYRON, F. RÉVERET, D. BOYER

A new antisolvent precipitation synthesis of green-emitting lead-free zinc-alloyed perovskite-inspired manganese halides $\text{Cs}_3\text{Mn}_{1-x}\text{Zn}_x\text{Br}_5$
ACS Applied Optical Materials, 2, 1(2024) 139-148. [10.1021/acsaom.3c0037](https://doi.org/10.1021/acsaom.3c0037)

G. ZERBIB, A. ROUX, L. SALAT, F. CISNETTI, D. BOYER, G. CHADEYRON, F. LEROUX

A Triazolium-Based Fluorophore Intercalated in Layered Double Hydroxides: from Simple Syntheses to Bright Solid-State Luminescence
Dalton Transactions, 53 (2024) 9369-9379. [10.1039/D4DT00573B](https://doi.org/10.1039/D4DT00573B)

A. BARROS, N. LEDOS, R. VALLEIX, J. CATHALAN, G. CHADEYRON, P.-A. BOUIT, M. HISSLER, D. BOYER

High-performance rare-earth-free fluorophores: toward white LEDs
ACS Applied Optical Materials, 2,5 (2024) 834-841. [10.1021/acsaom.4c00102](https://doi.org/10.1021/acsaom.4c00102)

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Zinc alloyed cesium manganese halides achieved through an optimized precipitation strategy
Optical Materials, 154 (2024) 115549. [10.1016/j.optmat.2024.115549](https://doi.org/10.1016/j.optmat.2024.115549)

A. TRAN, R. VALLEIX, F. RÉVERET, L. FREZET, F. CISNETTI, D. BOYER

Encapsulation of InP/ZnS Quantum Dots into MOF-5 Matrices for Solid-State Luminescence: Ship in the Bottle and Bottle around the Ship Methodologies
Materials, 17 (2024) 3155. [10.3390/ma17133155](https://doi.org/10.3390/ma17133155)

P. BOUTINAUD

The nephelauxetic function h_e : a tool to locate the emission of Mn^{4+} in oxides and fluorides
Optical materials: X, 22 (2024) 100310 (invited article). [10.1016/j.omx.2024.100310](https://doi.org/10.1016/j.omx.2024.100310)

P. BOUTINAUD

Nephelauxetic effect and metal-to-metal charge transfer in solids doped with Tl^+ , Sn^{2+} , Pb^{2+} or Sb^{3+}
Journal of Luminescence, 272 (2024) 120645. [10.1016/j.jlumin.2024.120645](https://doi.org/10.1016/j.jlumin.2024.120645)

P. BOUTINAUD

The nephelauxetic function h_e applied to the luminescence of Mn^{4+} and Mn^{5+} ions in oxides and oxyhalides
Optical materials, 157 (2024) 116232 (invited article). [10.1016/j.optmat.2024.116232](https://doi.org/10.1016/j.optmat.2024.116232)

D. LI, X. ZHENG, P. BOUTINAUD, Y. HU, S. XIAO, J. XU, C. WANG, Y. HOU, Z. HE, W. HUANG, F. KANG

An overview of nitrogen-doped MXenes and their recent developments
Responsive Materials (2024) e20210015 [10.1002/rpm.20240015](https://doi.org/10.1002/rpm.20240015)

D. LI, G. WANG, Y. YE, P. BOUTINAUD, X. ZHENG, J. XU, D. LI, Z. HE, W. HUANG, S. XIAO, F. KANG

Recent advances in the synthesis, photo-/electrocatalytic properties and applications of MXenes/bismuth-related composites
Chemical Engineering Journal, 498 (2024) 155098. [10.1016/j.cej.2024.155098](https://doi.org/10.1016/j.cej.2024.155098)

D. LI, X. ZHENG, H. HE, P. BOUTINAUD, S. XIAO, J. XU, C. WANG, Y. HU, F. KANG

A 20-Year Review of Inorganic Photochromic Materials: Design Consideration, Synthesis Methods, Classifications, Optical Properties, Mechanism Models, and Emerging Applications
Laser & Photonic Reviews (2024) 2400742. [10.1002/lpor.202400742](https://doi.org/10.1002/lpor.202400742)

E. CENTENO, A. MARTIN, A. POTDEVIN, F. RÉVERET, R. SMAALI, J.A. CAPO CHICHI, V. KALT, E. KACHAN, Y. JOURLIN, M. LANGLET, G. CHADEYRON,

Enhanced Spontaneous Light Emission of ZnO Nanowire-Based Gratings
ACS Applied Optical Materials, 2 (2024), 725-734, [10.1021/acsaom.4c00019](https://doi.org/10.1021/acsaom.4c00019)

C. BASLARI, H. MASKROT, W. PACQUENTIN, S. S. NOBRE, T. DELACROIX, D. ZAMBON, R. MAHIU

Embedding of $\text{Y}_3\text{Al}_5\text{O}_{12}:\text{Ce}$ within 316L stainless steel parts by laser powder bed fusion as an efficient luminescent sensor.
Additive Manufacturing Letters, 2024, 8, 100186.

J. CATHALAN, M. SALAÜN, A. POTDEVIN, F. RÉVERET, G. CHADEYRON, I. GAUTIER-LUNEAU

Investigation on the role of nitrates in the microwave-assisted autoclave Pechini synthesis of aluminoborate phosphor
Journal of Materials Chemistry C, Advance article, paru le 24/10/2024, [10.1039/D4TC02300E](https://doi.org/10.1039/D4TC02300E)

M. TRAYNAR, L. MARICHEZ, D. ZAMBON, F. RÉVERET, A. POTDEVIN, D. BOYER, A. VALOUR, I. VERRIER, N. CRESPO-MONTEIRO, G. CHADEYRON, Y. JOURLIN
Color effects based on resonant waveguide grating embedded in a luminescent sol-gel layer
Proc. SPIE 13015, Photosensitive Materials and their Applications III, 130150E (18 June 2024);
<https://doi.org/10.1117/12.3017373>

Communication

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

Communications dans un congrès international

M. TRAYNAR, L. MARICHEZ, D. ZAMBON, F. RÉVERET, A. POTDEVIN, D. BOYER, A. VALOUR, I. VERRIER, N. CRESPO-MONTEIRO, G. CHADEYRON, Y. JOURLIN
Color effects based on resonant waveguide grating embedded in a luminescent sol-gel layer
SPIE Photonics Europe, 7-11 avril 2024, Strasbourg

N. Y. N'GAZA, R. MERCIER, A. BARROS, D. BOYER and C. MARESTIN
Synthesis and study of aromatic and heterocyclic luminescent compounds and polymers
IUPAC MACRO 2024, 1-4 juillet 2024, Warwick (Royaume Uni)

R. THEVENET, A. POTDEVIN, F. RÉVERET, G. CHADEYRON
Strategies for increasing Cr⁴⁺ content in YAG:Cr matrix for laser applications
The 8th International Workshop on Advanced Spectroscopy and Optical Materials (IWASOM), 7-12 juillet 2024, Gdańsk (Pologne)

P. VOARINO, T. BERTHOMIEU, C. JAMIN, S. THERIAS, D. BOYER, L. IBARRART
First Evaluation under Ultraviolet Radiations and Thermal Cycles of Nanoparticle-based Protective Coatings for Heterojunction Silicon Cells
16th International Symposium on Materials in the Space Environment (ISME), 7-11 octobre 2024, Saint-Raphaël (France)

Communications dans un congrès national

R. THEVENET, G. CHADEYRON, F. RÉVERET, A. POTDEVIN
Stratégies d'oxydation du chrome au sein de poudres de YAG:Cr obtenues par synthèse Pechini
15^{ème} Journée Sol-Gel et Chimie Liquide Auvergne Rhône-Alpes (JSGAuRA15), 28 mars 2024, Saint-Etienne.

P. MARTIN, A. POTDEVIN, G. CHADEYRON, F. RÉVERET AND D. BOYER
Synthèse et caractérisation d'halogénures de manganèse (II) Influence de l'alliage au zinc
15^{ème} Journée Sol-Gel et Chimie Liquide Auvergne Rhône-Alpes (JSGAuRA15), 28 mars 2024, Saint-Etienne.

M. TRAYNAR, L. MARICHEZ, D. ZAMBON, F. RÉVERET, A. POTDEVIN, D. BOYER, A. VALOUR, I. VERRIER, N. CRESPO-MONTEIRO, Y. JOURLIN, E. CENTENO, G. CHADEYRON
Procédé sol-gel pour la fabrication d'un marquage anti-contrefaçon avec un réseau résonant enterré sous un revêtement luminescent
15^{ème} Journée Sol-Gel et Chimie Liquide Auvergne Rhône-Alpes (JSGAuRA15), 28 mars 2024, Saint-Etienne.

F. GARCIA, A. POTDEVIN, F. GROS, J.-F. CORNET AND D. BOYER
Sol-gel derived BiVO₄ coatings for use in PECs
Workshop Sciences et ingénierie des surfaces et interfaces, 16-18 octobre 2024, Ecully

M. TRAYNAR, L. MARICHEZ, D. ZAMBON, F. RÉVERET, A. POTDEVIN, D. BOYER, A. VALOUR, I. VERRIER, N. CRESPO-MONTEIRO, Y. JOURLIN, E. CENTENO, G. CHADEYRON
Multilayer optical component for different color effects relying on resonant waveguide grating and luminescent coating
Workshop Sciences et ingénierie des surfaces et interfaces, 16-18 octobre 2024, Ecully

A. BABU, D. BOYER, M. KHAYWAH, A. POTDEVIN, R. MAHIOU, A. DÉSSERT, S. PAROLA, G. CHADEYRON, E. CENTENO, R. SMAALI, A. MOREAU AND F. RÉVERET

Nanoparticules métalliques pour l'amélioration de l'extraction lumineuse

OPTIQUE Normandie 2024, 1-5 Juillet 2024, Rouen

R. THEVENET, F. REVERET, G. CHADEYRON, A. POTDEVIN

Optimisation des propriétés d'absorption et d'émission de poudres de YAG:Cr⁴⁺ synthétisées par procédé Pechini et coprécipitation

OPTIQUE Normandie 2024, 1-5 Juillet 2024, Rouen

M. TRAYNAR, L. MARICHE, D. ZAMBON, F. REVERET, A. POTDEVIN, D. BOYER, A. VALOUR, I. VERRIER, N. CRESPO-MONTEIRO, Y. JOURLIN, V. KALT, R. SMAALI, A. MOREAU, E. CENTENO, G. CHADEYRON

Marquage anti-contrefaçon associant réseau résonant et revêtement luminescent

OPTIQUE Normandie 2024, 1-5 Juillet 2024, Rouen