

6- Scientific articles in peer reviewed journals

15 April 2021
Georges Boulon
Emeritus professor
Publications 1967-2020

Scientific articles in peer reviewed journals: 573

Guest Editor of Special Issues in International Journals: 20

Articles in Books of the Ettore Majorana Foundation, Erice, Sicily-NATO Science Series: 20

Other articles in Books: 7

General articles in French: 7

Lessons in "Techniques de l'Ingénieur": 4

Patents: 6

A Special Issue

In honor of Professor Georges Boulon for his outstanding contributions to Optical Materials, Edited by Alok Srivastava

Optical Materials-Special Issue.

Volume 63, Pages 1-220 (January 2017)

Scientific articles in peer reviewed journals: 573

1. Influence of Ce ion on optical properties and radiation resistance in Tm-Ce co-doped alumino-silica glasses

Yan Jiao, Mengting Guo, Malgorzata Guzik, Georges Boulon, Chunlei Yu, ChongYun Shao and Lili Hu

Published in Optical Materials X (May 2021)

2. Pretreatment by recyclable Fe₃O₄@Mg/Al-CO₃-LDH magnetic nano-adsorbent to dephosphorize for the determination of trace F⁻ and Cl⁻ in phosphorus-rich solutions

Si Chen, Yongchun Xu, Yu Tang, Wei Chen, Shubin Chen, Lili Hu and **Georges Boulon**
RSC Adv., 2020, **10**, 44361-44372

DOI: 10.1039/D0RA07761E (Paper) (Royal Society of Chemistry)

3. Nano-crystalline Nd³⁺-doped LuPO₄ optical materials obtained by ionic liquid assisted synthesis route

Kacper A. Prokop, Malgorzata Guzik, Yannick Guyot, **Georges Boulon**, Magdalena Wilk-Kozubek, Marcin Sobczyk, Anja-Verena Mudring, Joanna Cybinska
Materials Science & Engineering B, submitted on 22 December 2020

4. Nano/micro powders of Nd³⁺-doped YPO₄ and LuPO₄ under structural and spectroscopic considerations. An abnormal temporal behavior of f-f photoluminescence.

J.Pawłó, K.A. Prokop, M. Guzik, Y.Guyot, **G.Boulon**, J. Cybińska
Journal of Luminescence, accepted on 16 February 2021

5. Combining XRD and SEM techniques with site selective spectroscopy for structural and spectroscopic studies of Nd³⁺-doped LuPO₄ micro-powders

K.A. Prokop, M. Guzik, Y. Guyot, **G. Boulon**, J. Cybińska
Ceramics International 46 (2020)26350-26360

6. Complexation-association-extraction-spectrophotometric determination of Pt cation based on multi-reagent analytical system with I⁻ anion and 2-[2-[4-(2-cyanoethyl)methylamino]phenyl]vinyl]-1,3,3-trimethyl-3H-indolium cation

Si Chen; Youkuo Chen; Yongchun Xu; Wei Chen ; Shubin Chen; Lili Hu; **Georges Boulon**
Analytical Methods, 12, 5367-5379, 2020 published by the Royal Society of Chemistry.

7. Investigations on the electric-dipole allowed $4f^25d \rightarrow 4f^3$ broadband emission of Nd³⁺-doped 20Al(PO₃)₃-80LiF glass for potential VUV scintillator application,

Melvin John F. Empizo, Yuki Minami, Kohei Yamanoi, Toshihiko Shimizu, Masashi Yoshimura, Nobuhiko Sarukura, Takahiro Murata, Akihiro Yamaji, Akira Yoshikawa, Malgorzata Guzik, Yannick Guyot, **Georges Boulon**, Marilou Cadatal-Raduban,
Journal of Alloys and Compounds, 856 (2020) 158096

<https://doi.org/10.1016/j.jallcom.2020.158096>

8. The effect of temperature on green and red upconversion emissions of LiYF₄:Yb³⁺,Ho³⁺ and its application for temperature sensing

Weichang Li, Lili Hu, Wei Chen, Shiyu Sun, Guanying Chen, Deyang Li, Malgorzata Guzik, **Georges Boulon**

Journal of Alloys and Compounds, 866, 15 June 2021, 158813

<https://doi.org/10.1016/j.jallcom.2021.158813>

9. Highly stable green and red up-conversion of LiYF₄:Yb³⁺, Ho³⁺ for potential application in color display

Weichang Li, Jixi Xu, Chongyun Shao, Shaohua Fan, Wei Chen , Malgorzata Guzik, **Georges Boulon**, and Lili Hu

Journal of Alloys and Compounds, 845 (2020) 155820

DOI: [10.1016/j.jallcom.2020.155820](https://doi.org/10.1016/j.jallcom.2020.155820)

10. 193 nm Excimer Laser-Induced Color Centers in Yb³⁺/Al³⁺/P⁵⁺-Doped Silica Glasses

Chongyun Shao, Mengting Guo, Yang Zhang, Li Zhou, Malgorzata Guzik, **Georges Boulon**, Chunlei Yu, Danping Chen and Lili Hu

Journal of Non-Crystalline Solids, Volume 544, 15 September 2020, 12019

11. Effect of B₂O₃ addition on structure and properties of Yb³⁺/Al³⁺/B³⁺-co-doped silica Glasses

Mengting Guo; Chongyun Shao; Yang Zhang; Jingbo Yu; Yan Jiao; Malgorzata Guzik; **Georges Boulon**; Jinjun Ren; Lili Hu

Journal of the American Ceramic Society, accepted on 2 April 2020-First published:13 April 2020, <https://doi.org/10.1111/jace.17155>

12. Compositional dependence of Stark splitting and spectroscopic properties in Yb³⁺ doped lead silicate glasses

Yan Sun, Xin Wang; Meisong Liao; Lili Hu; Malgorzata Guzik; **Georges Boulon**; Xia Li; Pei-Wen Kuan; Weiqing Gao; Tianxing Wang

Journal of Non-Crystalline Solids, 532, 119890 (15 March 2020)

<https://doi.org/10.1016/j.jnoncrysol.2020.119890>

13. Combination of broad emission bands of Ti^{3+,4+}/ Eu^{2+,3+} co-doped OH- free low silica calcium aluminosilicate glass as emitting phosphors for white lighting devices

Mauro Baesso, Claudio Morassuti; Simone Finoto; Junior R Silva; Luiz A Nunes; Yannick Guyot; **Georges Boulon**; Antonio Bento; Jurandir Rohling; Sandro Lima; Luis Andrade.

Journal of Alloys and Compounds, accepted on 2 June 2020.

<https://doi.org/10.1016/j.jallcom.2020.155898>

14. Eu^{2+,3+}/Pr³⁺ co-doped calcium aluminosilicate glass for tunable white lighting devices

C.Y. Morassuti^a, L.H.C. Andrade^a, J.R. Silva^a, A.C. Bento^b, M.L. Baesso^b, F.B. Guimarães^b, J.H. Rohling^b, A. C. Bento, L.A.O. Nunes^c, **G. Boulon^d**, Y. Guyot^d, and S.M. Lima^{a*}
Journal of Alloys and Compounds, Volume 817, 15 March 2020, 153319

15. The challenge of fabrication of optical transparent ceramics from cubic nano-crystals Y₆MoO₁₂ molybdate

P. Sobota, M. Guzik, V. Garnier, G. Fantozzi, M. Sobota, E. Tomaszewicz, Y. Guyot, **G. Boulon**

Ceramics International, Volume 46, Issue 4, March 2020, Pages 4619-4633
<https://doi.org/10.1016/j.ceramint.2019.10.192>,

16. Impurities in large scale produced Nd-doped phosphate laser glasses. I. Cu ions
Yongchun Xu, Meng Li, Congjuan Wang, Shunguang Li, Wei Chen, Lili Hu, **Georges Boulon**
Optical Materials :X, Volume 4, December 2019, 100033

17. Impurities in large scale produced Nd-doped phosphate laser glasses. II. Pt ion and Pt inclusion

Si Chen, Youkuo Chen, Jimeng Cheng, Qinling Zhou, Wei Chen, Lili Hu, **Georges Boulon**
Optical Materials :X, Volume 2, (May 2019) 100032

18. Nd³⁺ ion as a structural probe in studies of selected oxide host lattices: coupling the low-temperature high-resolution spectroscopic techniques with microscopy

M. Guzik^{*}, M. Bieza, P. Sobota, M. Sobota, J. Legendziewicz, E. Tomaszewicz, Y. Guyot, **G. Boulon**, J. Pejchal, A. Yoshikawa

in: LIGHT-MATTER INTERACTIONS TOWARDS THE NANOSCSALE-A NATO ADVANCED STUDY INSTITUTE/ ed. by Baldassare Di Bartolo, John Collins. - Dordrecht : Springer (2020)- Erice, Sicily, Italy: July 20—August 4, 2019

19. Research of efficient and fast scintillator garnet crystals. The role of Ce⁴⁺ in Ce³⁺, Mg²⁺-co-doped Gd₃Al₂Ga₃O₁₂ from spectroscopic and XANES characterizations.

G. Boulon, Y. Guyot, M. Guzik, G. Dantelle, D. Testemale, S. Kurosawa, K. Kamada, A. Yoshikawa

in: LIGHT-MATTER INTERACTIONS TOWARDS THE NANOSCSALE-A NATO ADVANCED STUDY INSTITUTE/ ed. by Baldassare Di Bartolo, John Collins. - Dordrecht : Springer (2020)- Erice, Sicily, Italy: July 20 August 4, 2019

20. Research of efficient fast scintillators. Evidence and XANES characterization of Ce⁴⁺ in Ce³⁺, Mg²⁺-co-doped Gd₃Al₂Ga₃O₁₂ garnet crystals

Géraldine Dantelle, **Georges Boulon**, Yannick Guyot, Denis Testemale, Malgorzata Guzik, Shunsuke Kurosawa, Kei Kamada, Akira Yoshikawa
Physica Status Solidi B, 257, n°8, (2020)1900510 (7 pages)

<https://doi.org/10.1002/pssb.201900510>

21. Spectroscopic investigation of praseodymium and cerium co-doped 20Al(PO₃)₃-80LiF glass for potential scintillator applications

Yuki Minami, Jacque Lynn Gabayno, Verdad Canila Agulto, Youwei Lai, Melvin John F. Empizo, Toshihiko Shimizu, Kohei Yamanoi, Nobuhiko, Sarukura, Akira Yoshikawa, Takahiro Murata, Malgorzata Guzik, Yannick Guyot, **Georges Boulon**, John A. Harrison, and Marilou Cadatal-Raduban

Journal of Non-Crystalline Solids, Volume 521, 119495 (2019)

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22. Influence of synthesis route and grain size on structural and spectroscopic properties of cubic Nd³⁺-doped Y₆MoO₁₂ nano and micro-powders as optical materials

M. Sobota, P. Sobota, M. Bieza, M. Guzik, E. Tomaszewicz, Y. Guyot and **G. Boulon**
Optical Materials, 90, 300-314 (2019)

23. Spectroscopic investigation and interest of Pr³⁺-doped calcium alumino-silicate glass

Claudio Yamamoto Morassuti, Luis Humberto Andrade, Junior Silva, Mauro Luciano Baesso, Francine Guimarães, Jurandir Rohling, Luiz Antonio Nunes, **Georges Boulon**, Yannick Guyot, Sandro Lima,
Journal of Luminescence, 210 (June 2019) 376-382

**24. ETTORE MAJORANA (1906-1938?), GENIAL PHYSICIEN ITALIEN
DISPARU MYSTERIEUSEMENT. *Le neutrino est-il une particule de Majorana?***

Georges Boulon

Mémoires de l'Académie des Sciences, Belles Lettres et Arts de Lyon
4^{ème} série, Tome 18, 52-61 (2018)

25. Research on the Yb³⁺ ion activated cubic molybdates and molybdate-tungstates for optical transparent ceramics;

Guzik M., Bieza M., Tomaszewicz E., Guyot Y., **Boulon G.**,

in: Nano-optics for enhancing light-matter interactions on a molecular scale : plasmonics, photonic materials and sub-wavelength resolution / ed. by Baldassare Di Bartolo, John Collins. - Dordrecht : Springer (2018) 315-354- Erice, Sicily, Italy: July 20—August 3, 2017)

26. Spectroscopic properties of Pr³⁺-doped 20Al(PO₃)₃-80LiF glasses as potential scintillators for neutron detection

Melvin John F. Empizo, Marilou Cadatal-Raduban, Takahiro Murata, Yuki Minami¹, Keisuke Kawano, Kohei Yamanoi, Toshihiko Shimizu, Nobuhiko Sarukura, Malgorzata Guzik, Yannick Guyot and **Georges Boulon**

Journal of luminescence, 193 (2018) 13-21

27. Yb³⁺ rare earth structural probe and correlation between morphology and spectroscopic properties of La₂Mo₂O₉ and mixed cubic La₂MoWO₉. Comparative analysis of translucent ceramics.

M. Bieza, M. Guzik, E. Tomaszewicz, Y. Guyot, **G. Boulon**

Journal of the European Ceramic Society, 38, Issue 9, August 2018, 3217-3234

28. Photophysical properties and ab initio HF and DFT calculations of the structure and spectroscopy of axially chloro substituted Yb(III) monophthalocyanines in different systems

Yu. Gerasymchuk , M. Guzik , R. Lisiecki , M. Sobczyk , J. Jański , A. Koll , G. Boulon , J. Legendziewicz,

Journal of Luminescence 193 (2018) 84–89

29. Les sources de lumière blanche associant une diode LED bleue et un matériau luminescent. Les diodes LED bleues couronnées par le Prix Nobel de Physique 2014

Georges Boulon

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30. Luminescence Properties of Yb³⁺-Doped Bismuthate Glass

Wang Tao, Fan Huiyan, Zhao Guoying, Cheng Jimeng, ChenWei, Hu Lili, Guzik Malgorzata, **Boulon Georges**

Chinese Journal of Laser, 44, n°9 (September 2017) 7 pages : 0 9 0 3 0 0 1 G 1 -7

doi: 1 0 . 3 7 8 8 / C J L 2 0 1 7 4 4 . 0 9 0 3 0 0 1

31. Toward optical ceramics based on Yb³⁺ rare earth ions-doped mixed molybdate tungstates – Part1: structural characterization

M. Bieza,^a M. Guzik,^{a,*} E. Tomaszewicz,^b Y. Guyot,^c K. Lebbou,^c E. Zych,^a **G. Boulon**

Journal of Physical Chemistry C (2017) 121, 13290-13302 IF: 4.536, DOI:

10.1021/acs.jpcc.7b00746

32. Toward optical ceramics based on Yb³⁺ rare earth ions-doped mixed Molybdate-tungstates – Part2: spectroscopic characterization

M. Bieza,^a M. Guzik,^{a,*} E. Tomaszewicz,^b Y. Guyot,^c **G. Boulon**

Journal of Physical Chemistry C (2017) 121, 13303-13313, IF: 4.536, DOI: 10.1021/acs.jpcc.7b00746

33. The size effect on the energy transfer in Bi³⁺-Eu³⁺ co-doped GdVO₄ nanocrystals

Lenczewska, Katarzyna, Gerasymchuk, Yuriy, Vu, Nguyen, Liem, Nguyen, **Boulon, Georges**, Hreniak, Dariusz

Journal of Materials Chemistry C, **5** (2017) 3014-3023 DOI: **10.1039/C6TC04660F**

34. Cubic Yb³⁺-activated Y₆MoO₁₂ micro-powder optical material operating in NIR region

M. Bieza¹, M. Guzik^{1,*}, E.Tomaszewicz², Y. Guyot³, **G. Boulon**

Optical Materials, 63 (2017) 3-12

35. Design of LaPO₄:Nd³⁺ materials by using ionic liquids

J. Cybinska, M. Guzik, C. Lorbeer, E. Zych, Y. Guyot, **G. Boulon**, A.-V. Mudring

Optical Materials, 63 (2017) 76-87

36. Localization of Yb³⁺, Er³⁺ and Co²⁺ dopants in an optical glass ceramic of MgAl₂O₄ spinel nano-crystals embedded in SiO₂ glass

G. Boulon, Y. Guyot, G. Alombert-Goget, M.Guzik, T. Epicier, L. Chen, L. Hu, W. Chen
NANO-OPTICS: PRINCIPLES ENABLING BASIC RESEARCH AND APPLICATIONS
B. Di Bartolo, J. Collins, L. Silvestri, editors, published in the NATO Science Series,
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37. Nd³⁺, Eu³⁺ and Yb³⁺ ions as structural probes in the scheelite-type cadmium molybdates with vacancies

M. Guzik^{*}, J. Legendziewicz, E. Tomaszewicz, Y. Guyot, **G. Boulon**

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38. Suppression mechanism of radiation-induced darkening by Ce doping in Al/Yb/Ce-doped silica glasses: Evidence from optical spectroscopy, EPR and XPS analyses

Chongyun Shao, Wenbin Xu, Nadege Ollier, Malgorzata Guzik, **Georges Boulon**, Lu Yu, Lei Zhang, Chunlei Yu, Shikai Wang, and Lili Hu

Journal of Applied Physics 120 (2016) 153101/1-153101-8

39. Spectroscopic study of radiative intra-configurational 4f → 4f transitions in Yb³⁺-doped materials using high hydrostatic pressure

Agata Kaminska, Adrian Kozanecki, Mariola O Ramirez, Luisa E Bausa, **Georges Boulon**, Marco Bettinelli, Michal Bockowski, Andrzej Suchocki,

J. of Luminescence 169 (2016) 507-515

40. Spectral characteristic and crystal-field calculations for new Er(III) phosphor of the type [Er(SP)]- (where SP=C₆H₅S(O)₂NP(O)OCH₃)₂-)

M. Sobczyk, K. Korzeniowski, M.Guzik, V.M. Amirkhanov, V.A. Trush,

P. Gawryszewska, Y. Guyot, **G.Boulon**, W. Stręk, J. Legendziewicz,

J. of Luminescence 169 (2016) 777-781

41. Spectroscopic properties, concentration quenching and Yb³⁺ site occupations in vacancied scheelite-type molybdates

M. Guzik, E. Tomaszewicz, Y. Guyot, J. Legendziewicz and **G. Boulon**

J. of Luminescence, 169 (2016) 755-764

42. Spectroscopy of C_{3i} and C₂ sites of Yb³⁺-doped Lu₂O₃ sesquioxide either as ceramics or crystal

By Y. Guyot, M. Guzik, G. Alombert-Goget, J. Pejchal, A. Yoshikawa, A. Ito, T. Goto, **G. Boulon**

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43. Spectroscopy of C_{3i} and C₂ sites of Nd³⁺-doped Lu₂O₃ sesquioxide either as ceramics or crystal

By M. Guzik, G. Alombert-Goget, Y. Guyot, J. Pejchal, A. Yoshikawa, A. Ito, T. Goto, **G. Boulon**

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44. Le renouveau de l'éclairage par association de diodes bleues et de cristaux luminescents

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45. Eu³⁺ luminescence from different sites in scheelite-type cadmium molybdate red phosphor with vacancies

M. Guzik, E. Tomaszewicz, Y. Guyot, J. Legendziewicz, **G. Boulon**

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46. Structural and spectroscopic characterizations of new vacancied Cd_{1-3x}Nd_{2x}MoO₄ scheelite-type molybdates as potential optical materials

Malgorzata Guzik, Elzbieta Tomaszewicz, Yannick Guyot, Janina Legendziewicz and **Georges Boulon**,

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47. Influence of Stark splitting levels on the lasing performance of Yb³⁺-doped phosphate and fluoro-phosphate glasses.

Liyan Zhang, Tianfeng Xue, Dongbing He, Lili Hu, Malgorzata Guzik, **Georges Boulon**
Optics Express (OSA), Vol. 23 Issue 2 (2015) pp.1505-1511

48. Photophysical and theoretical studies of structure and spectroscopic behaviour of axially substituted Yb(III) mono-phthalocyanines in different media

Yu. Gerasymchuk, L. Tomachynski, M. Guzik, A. Koll, J. Jański, Y. Guyot, W. Stręk, **G. Boulon**, J. Legendziewicz,

Journal of Photochemistry and Photobiology A: Chem. (2015) 309, 65-71

49. Synthesis and Nd³⁺ luminescence properties of ALa_{1-x}Nd_xP₄O₁₂ (A=Li, Na, K, Rb) tetraphosphate nanocrystals

L.Marciniak¹, W. Stręk, Y.Guyot, D. Hreniak, **G. Boulon**

J. Phys. Chem. C, (ACS, American Chemical Society) 119 (9), (2015) 5160–5167

50. Nd³⁺-doped Lu₂O₃ transparent sesquioxide ceramics elaborated by the Spark Plasma Sintering (SPS) method.

Part 1: structural, thermal conductivity and spectroscopic characterization

By G. Alombert-Goget, Y. Guyot, M. Guzik, **G. Boulon**, A. Ito, T. Goto, A. Yoshikawa, M. Kikuchi

Optical Materials, 41 (2015) 3-11

51. Nd³⁺-doped Lu₂O₃ transparent sesquioxide ceramics elaborated by the Spark Plasma Sintering (SPS) method.

Part 2: First laser output results and comparison with Nd³⁺-doped Lu₂O₃ and Nd³⁺-Y₂O₃ ceramics elaborated by a conventional method.

By G. Toci, M. Vannini, M. Ciofini, A. Lapucci, A. Pirri, A. Ito, T. Goto, A. Yoshikawa, A. Ikesue, G. Alombert-Goget, Y. Guyot, **G. Boulon**

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52. Nd³⁺ dopant influence on the structural and spectroscopic properties in microcrystalline La₂Mo₂O₉ (LAMOXY) dylanthanum dimolybdate

By M. Guzik, M. Bieza, E. Tomaszewicz, Y. Guyot, E. Zych and G. Boulon
Optical Materials, 41 (2015) 21-31

53. Effects of F- on the optical and spectroscopic properties of Yb³⁺/Al³⁺-co doped silica glass

By Wenbin Xu; Shikai Wang; Fengguang Lou; Suya Feng; Meng Wang; Qinling Zhou; Danping Chen; Lili Hu; Malgorzata Guzik; **Georges Boulon**
Optical Materials, 42 (2015) 245-250

54. Location of Yb³⁺, Er³⁺ and Co²⁺ dopants in laser glass ceramics composed of MgAl₂O₄ spinel nano-crystals embedded in SiO₂ glass

by **G. Boulon**¹, Y. Guyot¹, G. Alombert-Goget¹, M. Guzik^{1,2}, T. Epicier³, N. Blanchard¹, L. Chen⁴, L. Hu⁴, W. Chen⁴

Journal of Materials Chemistry C (RSC, Royal Society of Chemistry), 2 (2014) 9385–9397

55. Yb³⁺ ions distribution in YAG nano-ceramics analyzed by both optical and TEM-EDX techniques

By **G. Boulon**, Y. Guyot, M. Guzik, T. Epicier, P. Gluchowski, D. Hreniak, W. Strek
J. Phys. Chem. C (RSC), 2014, 118 (28), pp 15474–15486.

56. Poly- and single crystalline Yb³⁺-Er³⁺ -co-doped YAG: preparations, TEM EDX characterization and spectroscopic properties

By Jan Hostaša^{a,i}, Laura Esposito^a, Annie Malchère^b, Thierry Epicier^b, Angela Pirri^c, Matteo Vannini^d, Guido Toci^d, Enrico Cavalli^e, Guillaume Alombert-Goget^f, Yannick Guyot^f, **Georges Boulon**^f, Malgorzata Guzik^g, Akira Yoshikawa^h

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57. Fabrication and laser performance of multilayered YAG-Yb³⁺:YAG ceramics

By Laura Esposito¹, Jan Hostasa^{1,5}, Andreana Piancastelli¹, Guido Toci², Angela Pirri², Matteo Vannini², Thierry Epicier³, Annie Malchère³, Guillaume Alombert-Goget⁴, **Georges Boulon**⁴

J. Mater. Chem. C (RSC), 2014, 2, 10138–10148

58. Structural investigations of un-doped Lu₂O₃ as Single Crystal and Polycrystalline Transparent Ceramic

By Malgorzata Guzik, Milosz Siczek, Tadeusz Lis, Jan Pejchal, Akira Yoshikawa, Akihiko Ito, Takashi Goto, **Georges Boulon**

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59. Violet-green excitation for NIR luminescence of Yb³⁺ ions in Bi₂O₃-B₂O₃-SiO₂ Ga₂O₃ glasses

By Weiwei Li, Jimeng Cheng, Guoying Zhao, Wei Chen, Lili Hu, Malgorzata Guzik, **Georges Boulon**

Optics Express (OSA), Vol. 22, Iss. 8, (2014) pp. 8831–8842

60. Influence of the Al³⁺ and P⁵⁺ contents on the valence state and the distribution of Yb³⁺ ions in silica glass prepared by sol-gel method

By Shikai Wang, Fengguang Lou, Chunlei Yu, Qinling Zhou, Meng Wang, Suya Feng, Danping Chen, Lili Hu, Wei Chen, Malgorzata Guzik, **Georges Boulon**

J. Mater. Chem. C (RSC), 2, (2014) 4406-4414

61. Structural and spectroscopic properties of Yb³⁺-doped MgAl₂O₄ nanocrystalline spinel

By R.J. Wiglusz*, **G. Boulon**, Y. Guyot, M. Guzik, D.Hreniak, W. Strek

Dalton Transactions (RSC), 2014, 43, 7752-7759

62. An approach in the structural and spectroscopic analysis of Yb³⁺-doped YAG nano-ceramics by conjugation of TEM-EDX and optical techniques

By **G. Boulon**, Y. Guyot, M. Guzik, T. Epicier, P. Gluchowski, D. Hreniak, W. Strek

Erice, Sicily, Italy; July 4-19, 2013

NATO Science for Peace and security series-B: Physics and Biophysics

Nano-structures for optics and photonics.

Optical Strategies for Enhancing Sensing, Imaging, Communication, and Energy Conversion

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63. Development of Nd³⁺-doped Monoclinic Dimolybdates La₂Mo₂O₉ as Optical Materials

By M. Guzik, M. Bieza, E. Tomaszewicz, Y. Guyot and **G. Boulon**

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64. Spectroscopic properties of Er³⁺-doped antimony oxide glass

Ouannes, K., Soltani, M. T., Poulain, M., **Boulon, G.**, Alombert-Goget, G., Guyot, Y., A. Pillonnet, Lebbou, K. (2014)

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65. Scintillation Properties of Nd³⁺-Doped Lu₂O₃ Ceramic in the Visible and Infra Red Region

Shunsuke Kurosawa, Liqiong An, Akihiro Yamaji, Akira Suzuki, Yuui Yokota, Kenji Shirasaki, Yamamura Tomoo, Akihiko Ito, Takashi Goto, Georges Boulon and Akira Yoshikawa

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67. Structural and optical studies of Yb³⁺, Er³⁺ and Er³⁺/Yb³⁺ co-doped phosphate glasses

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