

Professor Marco Bettinelli

Curriculum vitae

A. Academic degrees

- 1981: Doctorate in Chemistry from University of Parma, Italy.

B. Appointments

- 2002–present: Full Professor, Inorganic Chemistry, University of Verona, Italy.
- 1993–2002 Associate Professor, Inorganic Chemistry, University of Verona, Italy.
- 1992–1993: Associate Professor, Inorganic Chemistry, University of Salerno, Italy.
- 1983–1992: Assistant Professor, Inorganic Chemistry, University of Padova, Italy.

C. Tutoring experience

- Six PhD students and five MSc students completed. One PhD student in progress.

D. Networks in academia and industry

Most important international cooperation partners:

- Prof. Andries Meijerink, Utrecht University, The Netherlands
- Dr. Alok Srivastava, GE Global Research, USA
- Dr. Cees Ronda, Philips, Eindhoven, The Netherlands
- Prof. José Garcia Solé, Universidad Autonoma Madrid, Spain
- Prof. Pieter Dorenbos, Delft University of Technology, The Netherlands
- Prof. Wieslaw Strek, Polish Academy of Sciences, Wroclaw, Poland
- Prof. John A. Capobianco, Concordia University, Montreal, Canada
- Prof. Setsuhisa Tanabe, Kyoto University, Japan

E. Other merits of relevance

- Doctorate honoris causa from Blaise Pascal University, Clermont-Ferrand, France (May 2008).
- Marco Polo Award for the scientific and technological collaboration between Italy and Japan in the field of Nanotechnology (November 2011).
- Fellow of the Royal Society of Chemistry (FRSC CChem).
- Visiting Professor at Université de Caen (France), Université Blaise Pascal, Clermont-Ferrand (France), Kyoto University (Japan), Chalmers University (Gothenburg, Sweden), Boston College (USA).
- Editor-in-Chief of the Journal of Luminescence (Elsevier). Until May 1st 2013, Member of the Editorial Board and Associate Editor of the same journal (for seven years).

- Guest Editor of the Special Issue of the journal Optical Materials (Volume 33, Issue 7 pp. 979-1142 (May 2011), Rare earth doped materials for optical based technologies, Symposium K of the 2010 EMRS Spring Meeting).
- Guest Editor of the Special Issue of the journal ECS Journal of Solid State Science and Technology (Volume 2, Issue 2 pp. R3001-R3176 (2013), JSS Special Issue on luminescent materials for solid state lighting.
- Co-chair of ICFE8, 8th International Conference on f-Elements, August 2012, Udine, Italy.
- Member of the Organizing Committees of numerous international conferences.
- Reviewer for numerous international journals in Chemistry, Physics and Materials Science.
- Associate researcher with CNR-IFAC, Firenze, Italy (group of Prof. G. C. Righini) for five years.
- Member for six years of the Academic Senate of the University of Verona.
- Vice-Dean of the Faculty of Science of the University of Verona (2003-2006).
- National scientific coordinator for funded PRIN (COFIN) projects in the years 2001 and 2003. Leader of funded research units in the years 1996, 1997 and 1999.
- Leader of research units in the funded EU projects STRING FP6-NMP3-CT-2006-032636, Specific Target Research or Innovation Project (STRP), from 01/09/2007 to 28/02/2010 and LUMINET FP7-PEOPLE-2012-ITN-316906, Marie Curie - Networks for Initial Training, from 01/12/2012 to 30/11/2016.
- Principal investigator of various executive programs of scientific and technological co-operation between Italy and Poland (Polish Academy of Science, Wroclaw), between Italy and Japan (Kyoto Institute of Technology) and between Italy and Mexico (Universidad Autonoma Metropolitana-Iztapalapa).
- Member of the Review College of EPSRC (Engineering and Physical Sciences Research Council), UK Government's leading funding agency.
- Member of the Expert Pool of the European Photovoltaic Technology Platform.

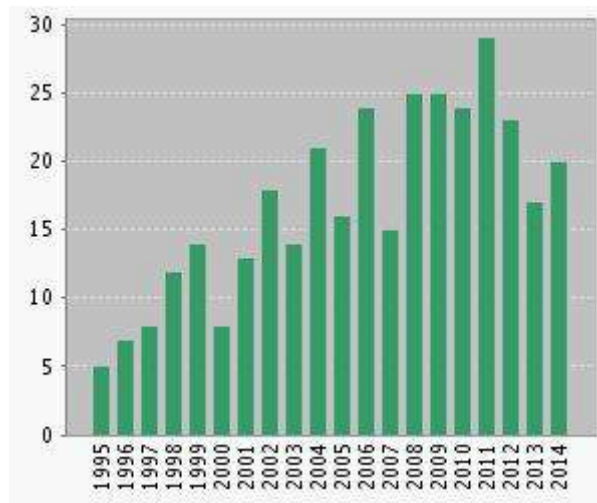
F. Summary of scientific production

- 423 scientific articles. 8535 citations, h-index 44 (Scopus, April 6th 2015).
- Numerous invited talks at international conferences.

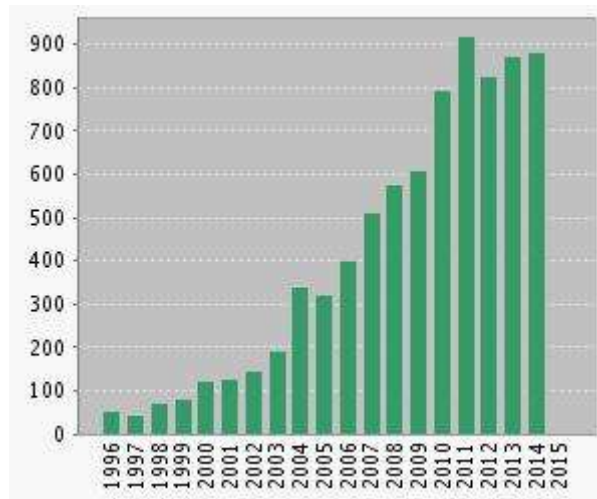
G. Scientific interests

- Various aspects of the Chemistry and Physics of luminescent materials and coordination compounds, in particular the synthesis, characterisation and spectroscopic properties (absorption, luminescence and upconversion) of crystalline, nanocrystalline and amorphous systems containing lanthanide and transition metal ions.

Overview of published papers and citations (Web of Science, August 2014)



Published Items in Each Year (last 20 years)



Citations in Each Year (last 20 years)

Marco Bettinelli – publications in reverse chronological order

April 6th, 2015

423 documents

8535 total citations by 6060 documents

h Index (Scopus): 44

EXPORT DATE:06 Apr 2015

Bettinelli, M.

Upconversion nanocrystals: Bright colours ahead
(2015) *Nature Nanotechnology*, 10 (3), pp. 203-204.

DOI: 10.1038/nnano.2015.31

DOCUMENT TYPE: Short Survey

SOURCE: Scopus

Piccinelli, F., Bettinelli, M., Melchior, A., Grazioli, C., Tolazzi, M.

Structural, optical and sensing properties of novel Eu(III) complexes with furan- and pyridine-based ligands
(2015) *Dalton Transactions*, 44 (1), pp. 182-192.

DOI: 10.1039/c4dt02326a

DOCUMENT TYPE: Article

SOURCE: Scopus

Villa, I., Vedda, A., Cantarelli, I.X., Pedroni, M., Piccinelli, F., Bettinelli, M., Speghini, A., Quintanilla, M., Vetrone, F., Rocha, U., Jacinto, C., Carrasco, E., Rodríguez, F.S., Juarranz, Á., del Rosal, B., Ortgies, D.H., Gonzalez, P.H., Solé, J.G., García, D.J.

1.3 μm emitting SrF₂:Nd³⁺ nanoparticles for high contrast in vivo imaging in the second biological window
(2015) *Nano Research*, 8 (2), pp. 649-665.

DOI: 10.1007/s12274-014-0549-1

DOCUMENT TYPE: Article

SOURCE: Scopus

Cesaria, M., Bilir, G., Özen, G., Bettinelli, M., Collins, J., Piccinelli, F., di Bartolo, B.

Incandescent lamp-like white-light emission from doped and undoped oxide nanopowders
(2015) *NATO Science for Peace and Security Series B: Physics and Biophysics*, 68, pp. 273-284.

DOI: 10.1007/978-94-017-9133-5__12

DOCUMENT TYPE: Article

SOURCE: Scopus

Martín-Rodríguez, R., Rabouw, F.T., Trevisani, M., Bettinelli, M., Meijerink, A.

Upconversion Dynamics in Er³⁺-Doped Gd₂O₃: Influence of Excitation Power, Er³⁺ Concentration, and Defects
(2015) *Advanced Optical Materials*, . Article in Press.

DOI: 10.1002/adom.201400588

DOCUMENT TYPE: Article in Press

SOURCE: Scopus

Caldiño, U., Muñoz H., G., Camarillo, I., Speghini, A., Bettinelli, M.

Down-shifting by energy transfer in Tb³⁺/Dy³⁺ co-doped zinc phosphate glasses
(2015) *Journal of Luminescence*, 161, pp. 142-146.

DOI: 10.1016/j.jlumin.2015.01.001

DOCUMENT TYPE: Article

SOURCE: Scopus

- Marciniak, L., Hreniak, D., Strek, W., Piccinelli, F., Speghini, A., Bettinelli, M., Miritello, M., Lo Savio, R., Cardile, P., Priolo, F.
Spectroscopic and structural properties of polycrystalline Y₂Si₂O₇ doped with Er³⁺
(2014) *Journal of Luminescence*, . Article in Press.
DOI: 10.1016/j.jlumin.2015.02.015
DOCUMENT TYPE: Article in Press
SOURCE: Scopus
- Cavalli, E., Angiuli, F., Mezzadri, F., Trevisani, M., Bettinelli, M., Boutinaud, P., Brik, M.G.
Tunable luminescence of Bi³⁺-doped YPXV₁-XO₄ (0 ≤ X ≤ 1)
(2014) *Journal of Physics Condensed Matter*, 26 (38), art. no. 385503, . Cited 1 time.
DOI: 10.1088/0953-8984/26/38/385503
DOCUMENT TYPE: Article
SOURCE: Scopus
- Trevisani, M., Ivanovskikh, K.V., Ramírez, M.O., Molina, P., Villora, E.G., Shimamura, K., Bausá, L.E., Bettinelli, M.
VUV-UV 5d-4f interconfigurational transitions of Nd³⁺ in BaMgF₄ ferroelectric crystals
(2014) *Journal of Luminescence*, 153, pp. 136-139. Cited 1 time.
DOI: 10.1016/j.jlumin.2014.02.039
DOCUMENT TYPE: Article
SOURCE: Scopus
- Marin-Dobrincic, M., García-Sevillano, J., Bettinelli, M., Piccinelli, F., Cantelar, E., Cussó, F.
Quantification of energy transfer processes in LiLa₉(SiO₄)₆O₂:Er³⁺/Yb³⁺ under selective Er³⁺ excitation
(2014) *Optics Express*, 22 (12), pp. 14646-14656.
DOI: 10.1364/OE.22.014646
DOCUMENT TYPE: Article
SOURCE: Scopus
- Moretti, F., Patton, G., Belsky, A., Fasoli, M., Vedda, A., Trevisani, M., Bettinelli, M., Dujardin, C.
Radioluminescence sensitization in scintillators and phosphors: Trap engineering and modeling
(2014) *Journal of Physical Chemistry C*, 118 (18), pp. 9670-9676. Cited 4 times.
DOI: 10.1021/jp501717z
DOCUMENT TYPE: Article
SOURCE: Scopus
- Mahlik, S., Lazarowska, A., Speghini, A., Bettinelli, M., Grinberg, M.
Temperature evolution of the luminescence decay of Sr_{0.33}Ba_{0.67}Nb₂O₆:Pr³⁺
(2014) *Journal of Physics Condensed Matter*, 26 (16), art. no. 165502, .
DOI: 10.1088/0953-8984/26/16/165502
DOCUMENT TYPE: Article
SOURCE: Scopus
- Krsmanović Whiffen, R.M., Antić, Z., Speghini, A., Brik, M.G., Bártová, B., Bettinelli, M., Dramićanin, M.D.
Structural and spectroscopic studies of Eu³⁺ doped Lu₂O₃-Gd₂O₃ solid solutions
(2014) *Optical Materials*, 36 (6), pp. 1083-1091. Cited 1 time.
DOI: 10.1016/j.optmat.2014.01.039
DOCUMENT TYPE: Article
SOURCE: Scopus
- Srivastava, A.M., Camardello, S.J., Comanzo, H.A., Trevisani, M., Bettinelli, M.
Optical spectroscopy of Pr³⁺ in the weberite, NaGdSb₂O₇: High covalence of Pr³⁺-O²⁻ bonding
(2014) *Journal of Luminescence*, 148, pp. 262-266. Cited 1 time.
DOI: 10.1016/j.jlumin.2013.11.080
DOCUMENT TYPE: Article
SOURCE: Scopus
- Piccinelli, F., Pedroni, M., Cagliero, S., Speghini, A., Bettinelli, M.
Structural study of Ca₂Gd₂Ge₂O₉ and optical spectroscopy of the Eu³⁺ dopant ion

(2014) *Journal of Solid State Chemistry*, 212, pp. 180-184. Cited 1 time.

DOI: 10.1016/j.jssc.2014.01.025

DOCUMENT TYPE: Article

SOURCE: Scopus

Caldiño, U., Speghini, A., Berneschi, S., Bettinelli, M., Brenchi, M., Pasquini, E., Pelli, S., Righini, G.C.

Optical spectroscopy and optical waveguide fabrication in Eu³⁺ and Eu³⁺/Tb³⁺ doped zinc-sodium-aluminosilicate glasses

(2014) *Journal of Luminescence*, 147, pp. 336-340. Cited 3 times.

DOI: 10.1016/j.jlumin.2013.11.061

DOCUMENT TYPE: Article

SOURCE: Scopus

Leto, A., Piccinelli, F., Pezzotti, G., Speghini, A., Nodari, L., Polizzi, S., Bettinelli, M.

Single crystal and nanocrystalline Pr³⁺ doped LuPO₄: Synthesis, structural characterization, photo- and cathodoluminescence

(2014) *Materials Research Bulletin*, 51, pp. 24-27. Cited 1 time.

DOI: 10.1016/j.materresbull.2013.11.055

DOCUMENT TYPE: Article

SOURCE: Scopus

Santamaría-Pérez, D., Gomis, O., Sans, J.A., Ortiz, H.M., Vegas, A., Errandonea, D., Ruiz-Fuertes, J., Martínez-García, D., García-Domene, B., Pereira, A.L.J., Manjón, F.J., Rodríguez-Hernández, P., Muñoz, A., Piccinelli, F., Bettinelli, M., Popescu, C.

Compressibility systematics of calcite-type borates: An experimental and theoretical structural study on ABO₃ (A = Al, Sc, Fe, and In)

(2014) *Journal of Physical Chemistry C*, 118 (8), pp. 4354-4361. Cited 1 time.

DOI: 10.1021/jp4124259

DOCUMENT TYPE: Article

SOURCE: Scopus

Brik, M.G., Srivastava, A.M., Bettinelli, M.

Ab initio calculations of the structural and electronic properties of Ca₂La₃Sb₃O₁₄ weberite at ambient and elevated hydrostatic pressure

(2014) *ECS Journal of Solid State Science and Technology*, 3 (2), pp. R1-R4. Cited 1 time.

DOI: 10.1149/2.002402jss

DOCUMENT TYPE: Article

SOURCE: Scopus

Errandonea, D., Popescu, C., Achary, S.N., Tyagi, A.K., Bettinelli, M.

In situ high-pressure synchrotron X-ray diffraction study of the structural stability in NdVO₄ and LaVO₄

(2014) *Materials Research Bulletin*, 50, pp. 279-284. Cited 5 times.

DOI: 10.1016/j.materresbull.2013.10.047

DOCUMENT TYPE: Article

SOURCE: Scopus

Barrera, E.W., Pujol, M.C., Carvajal, J.J., Mateos, X., Solé, R., Massons, J., Speghini, A., Bettinelli, M., Cascales, C., Aguiló, M., Díaz, F.

White light upconversion in Yb-sensitized (Tm, Ho)-doped KLu(WO₄)₂ nanocrystals: The effect of Eu incorporation

(2014) *Physical Chemistry Chemical Physics*, 16 (4), pp. 1679-1686. Cited 1 time.

DOI: 10.1039/c3cp53847h

DOCUMENT TYPE: Article

SOURCE: Scopus

Rodríguez Burbano, D.C., Rodríguez, E.M., Dorenbos, P., Bettinelli, M., Capobianco, J.A.

The near-IR photo-stimulated luminescence of CaS:Eu²⁺/Dy³⁺ nanophosphors

(2014) *Journal of Materials Chemistry C*, 2 (2), pp. 228-231. Cited 6 times.

DOI: 10.1039/c3tc31909a

DOCUMENT TYPE: Article

SOURCE: Scopus

Lira, A., Speghini, A., Camarillo, E., Bettinelli, M., Caldiño, U.
Spectroscopic evaluation of Zn(PO₃)₂:Dy³⁺ glass as an active medium for solid state yellow laser
(2014) *Optical Materials*, 38, pp. 188-192.
DOI: 10.1016/j.optmat.2014.10.024
DOCUMENT TYPE: Article
SOURCE: Scopus

Barrera, E.W., Pujol, M.C., Carvajal, J.J., Mateos, X., Solé, R., Massons, J., Speghini, A., Bettinelli, M., Cascales, C., Aguiló, M., Díaz, F.
Upconversion emission in (Ln,Yb):KLu(WO₄)₂ nanocrystals for white light generation
(2014) *Journal of Physics: Conference Series*, 480 (1), art. no. 012005, .
DOI: 10.1088/1742-6596/480/1/012005
DOCUMENT TYPE: Conference Paper
SOURCE: Scopus

Trevisani, M., Ivanovskikh, K.V., Piccinelli, F., Bettinelli, M.
Fast 5d-4f luminescence in Pr³⁺-doped K₃Lu(PO₄)₂
(2014) *Journal of Luminescence*, 152, pp. 2-6.
DOI: 10.1016/j.jlumin.2013.11.068
DOCUMENT TYPE: Article
SOURCE: Scopus

Srivastava, A.M., Camardello, S.J., Comanzo, H.A., Beers, W.W., Brik, M.G., Trevisani, M., Bettinelli, M.
Luminescence of Eu³⁺ and Pr³⁺ in the weberite, Ca₂La₃Sb₃O₁₄
(2014) *Optical Materials*, 38, pp. 248-251. Cited 1 time.
DOI: 10.1016/j.optmat.2014.10.040
DOCUMENT TYPE: Article
SOURCE: Scopus

Rodriguez-Rodriguez, H., Rodriguez Sevilla, P., Martin Rodriguez, E., Ortgies, D.H., Pedroni, M., Speghini, A., Bettinelli, M., Jaque, D., Haro-González, P.
Enhancing optical forces on fluorescent up-converting nanoparticles by surface charge tailoring
(2014) *Small*, . Article in Press.
DOI: 10.1002/smll.201402587
DOCUMENT TYPE: Article in Press
SOURCE: Scopus

Trevisani, M., Ivanovskikh, K., Piccinelli, F., Bettinelli, M.
Synchrotron radiation study of interconfigurational 5d-4f luminescence of Pr³⁺ in KLuP₂O₇
(2014) *Zeitschrift fur Naturforschung - Section B Journal of Chemical Sciences*, 69 (2), pp. 205-209.
DOI: 10.5560/ZNB.2014-3260
DOCUMENT TYPE: Article
SOURCE: Scopus

Azkargorta, J., Iparraguirre, I., Bettinelli, M., Cavalli, E., Barredo-Zuriarrain, M., García-Revilla, S., Balda, R., Fernandez, J.
Effects of pumping wavelength and pump density on the random laser performance of stoichiometric Nd crystal powders
(2014) *Optics Express*, 22 (22), pp. 27365-27372.
DOI: 10.1364/OE.22.027365
DOCUMENT TYPE: Article
SOURCE: Scopus

Mahlik, S., Lazarowska, A., Speghini, A., Bettinelli, M., Grinberg, M.
Pressure evolution of luminescence in Sr_xBa_{1-x}(NbO₂)₃:Pr³⁺ (x=1/2 and 1/3)
(2014) *Journal of Luminescence*, 152, pp. 62-65. Cited 1 time.
DOI: 10.1016/j.jlumin.2013.11.041
DOCUMENT TYPE: Article

SOURCE: Scopus

Mishra, K.C., Setlur, A., Yamamoto, H., Collins, J., Bettinelli, M.
Preface to the special issue on luminescent materials for solid state lighting
(2013) *ECS Journal of Solid State Science and Technology*, 2 (2), .
DOI: 10.1149/2.021302jss
DOCUMENT TYPE: Editorial
SOURCE: Scopus

Pedroni, M., Piccinelli, F., Passuello, T., Polizzi, S., Ueda, J., Haro-González, P., Martinez Maestro, L., Jaque, D., García-Solé, J., Bettinelli, M., Speghini, A.
Water (H₂O and D₂O) dispersible NIR-to-NIR upconverting Yb³⁺/Tm³⁺ doped MF₂ (M = Ca, Sr) colloids: Influence of the host crystal
(2013) *Crystal Growth and Design*, 13 (11), pp. 4906-4913. Cited 7 times.
DOI: 10.1021/cg401077v
DOCUMENT TYPE: Article
SOURCE: Scopus

Piccinelli, F., Speghini, A., Bettinelli, M.
Crystal structure and optical spectroscopy of Ca₃Ln₂Si₃O₁₂ (Ln = Gd and Lu) doped with Eu³⁺
(2013) *Optical Materials*, 35 (11), pp. 2027-2029. Cited 1 time.
DOI: 10.1016/j.optmat.2012.09.034
DOCUMENT TYPE: Conference Paper
SOURCE: Scopus

Piccinelli, F., Lausi, A., Bettinelli, M.
Structural investigation of the new Ca₃Ln₂Ge₃O₁₂ (Ln = Pr, Nd, Sm, Gd and Dy) compounds and luminescence spectroscopy of Ca₃Gd₂Ge₃O₁₂ doped with the Eu³⁺ ion
(2013) *Journal of Solid State Chemistry*, 205, pp. 190-196. Cited 2 times.
DOI: 10.1016/j.jssc.2013.07.021
DOCUMENT TYPE: Article
SOURCE: Scopus

Ozen, G., Erdem, M., Collins, J., Bettinelli, M., Bartolo, B.D., Piccinelli, F., Speghini, A.
Effect of spatial confinement on luminescence of Y₃Al₅O₁₂ nano-particles doped with chromium ions
(2013) *Journal of Luminescence*, 144, pp. 191-197. Cited 1 time.
DOI: 10.1016/j.jlumin.2013.07.007
DOCUMENT TYPE: Article
SOURCE: Scopus

Haro-González, P., Karlsson, M., Gaita, S.M., Knee, C.S., Bettinelli, M.
Eu³⁺ as a luminescent probe for the local structure of trivalent dopant ions in barium zirconate-based proton conductors
(2013) *Solid State Ionics*, 247-248, pp. 94-97. Cited 2 times.
DOI: 10.1016/j.ssi.2013.06.008
DOCUMENT TYPE: Article
SOURCE: Scopus

Cavalli, E., Angiuli, F., Kebāili, I., Dammak, M., Boutinaud, P., Bettinelli, M.
Luminescence dynamics of YAl₃(BO₃)₄:Sm³⁺ crystals
(2013) *Journal of Luminescence*, 143, pp. 562-565. Cited 3 times.
DOI: 10.1016/j.jlumin.2013.05.055
DOCUMENT TYPE: Article
SOURCE: Scopus

Piccinelli, F., Melchior, A., Speghini, A., Monari, M., Tolazzi, M., Bettinelli, M.
Europium (III) complexes with new N-donor ligand: A comparative study in solid state and solution
(2013) *Polyhedron*, 57, pp. 30-38. Cited 3 times.
DOI: 10.1016/j.poly.2013.04.012

DOCUMENT TYPE: Article

SOURCE: Scopus

Haro-González, P., Ramsay, W.T., Maestro, L.M., Del Rosal, B., Santacruz-Gomez, K., Iglesias-De La Cruz, M.D.C., Sanz-Rodríguez, F., Chooi, J.Y., Sevilla, P.R., Bettinelli, M., Choudhury, D., Kar, A.K., Solé, J.G., Jaque, D., Paterson, L. Quantum dot-based thermal spectroscopy and imaging of optically trapped microspheres and single cells (2013) *Small*, 9 (12), pp. 2162-2170. Cited 11 times.

DOI: 10.1002/sml.201201740

DOCUMENT TYPE: Article

SOURCE: Scopus

Bettinelli, M., Feofilov, S.

To all the readers of and contributors to the Journal of Luminescence

(2013) *Journal of Luminescence*, 142, .

DOI: 10.1016/S0022-2313(13)00297-4

DOCUMENT TYPE: Editorial

SOURCE: Scopus

Šimuneková, M., Prodius, D., Mereacre, V., Schwendt, P., Turta, C., Bettinelli, M., Speghini, A., Lan, Y., Anson, C.E., Powell, A.K.

Tetradecanuclear lanthanide-vanadium "nanochocolates": Catalytically-active cationic heteropolyoxovanadium clusters

(2013) *RSC Advances*, 3 (18), pp. 6299-6304. Cited 6 times.

DOI: 10.1039/c3ra40385h

DOCUMENT TYPE: Article

SOURCE: Scopus

Ozen, G., Collins, J., Bettinelli, M., Di Bartolo, B.

Luminescence of Y3Al5O12 nano-particles doped with praseodymium ions

(2013) *Optical Materials*, 35 (7), pp. 1360-1365. Cited 3 times.

DOI: 10.1016/j.optmat.2013.01.038

DOCUMENT TYPE: Article

SOURCE: Scopus

Ma, C.-G., Trevisani, M., Piccinelli, F., Ivanovskikh, K.V., Bettinelli, M., Brik, M.G.

Analysis of vacuum ultraviolet electronic spectra of Ce³⁺ and Pr³⁺ ions in Ca₉Lu(PO₄)₇: Crystal-field calculations and simulation of optical spectra

(2013) *Journal of Physics Condensed Matter*, 25 (16), art. no. 165503, . Cited 2 times.

DOI: 10.1088/0953-8984/25/16/165503

DOCUMENT TYPE: Article

SOURCE: Scopus

Mahlik, S., Cavalli, E., Bettinelli, M., Grinberg, M.

Luminescence of CaWO₄:Pr³⁺ and CaWO₄:Tb³⁺ at ambient and high hydrostatic pressures

(2013) *Radiation Measurements*, 56, pp. 1-5. Cited 2 times.

DOI: 10.1016/j.radmeas.2013.03.019

DOCUMENT TYPE: Article

SOURCE: Scopus

Trevisani, M., Ivanovskikh, K.V., Grillet, N., Piccinelli, F., Bettinelli, M.

Structural characterisation and time-resolved luminescence spectroscopy of nanocrystalline X₂-Lu₂SiO₅:Pr³⁺ powders

(2013) *Chemical Physics Letters*, 565, pp. 80-85. Cited 1 time.

DOI: 10.1016/j.cplett.2013.02.031

DOCUMENT TYPE: Article

SOURCE: Scopus

Sanson, A., Giarola, M., Bettinelli, M., Speghini, A., Mariotto, G.

Polarized micro-Raman spectroscopy and ab initio phonon modes calculations of LuPO₄

(2013) *Journal of Raman Spectroscopy*, 44 (10), pp. 1411-1415. Cited 3 times.

DOI: 10.1002/jrs.4257
DOCUMENT TYPE: Conference Paper
SOURCE: Scopus

Mahlik, S., Behrendt, M., Grinberg, M., Cavalli, E., Bettinelli, M.
High pressure luminescence spectra of CaMoO₄:Ln³⁺ (Ln = Pr, Tb)
(2013) Journal of Physics Condensed Matter, 25 (10), art. no. 105502, . Cited 8 times.
DOI: 10.1088/0953-8984/25/10/105502
DOCUMENT TYPE: Article
SOURCE: Scopus

Caldiño, U., Álvarez, E., Speghini, A., Bettinelli, M.
New greenish-yellow and yellowish-green emitting glass phosphors: Tb³⁺/Eu³⁺ and Ce³⁺/Tb³⁺/Eu³⁺ in zinc phosphate glasses
(2013) Journal of Luminescence, 135, pp. 216-220. Cited 18 times.
DOI: 10.1016/j.jlumin.2012.10.013
DOCUMENT TYPE: Article
SOURCE: Scopus

Trevisani, M., Ivanovskikh, K.V., Piccinelli, F., Speghini, A., Bettinelli, M.
Erratum: Interconfigurational 5d→4f luminescence of Ce³⁺ and Pr³⁺ in Ca₉Lu(PO₄)₇ (Journal of Physics Condensed Matter (2012) 24 (385502))
(2012) Journal of Physics Condensed Matter, 24 (48), art. no. 489501, .
DOI: 10.1088/0953-8984/24/48/489501
DOCUMENT TYPE: Erratum
SOURCE: Scopus

Passuello, T., Pedroni, M., Piccinelli, F., Polizzi, S., Marzola, P., Tambalo, S., Conti, G., Benati, D., Vetrone, F., Bettinelli, M., Speghini, A.
PEG-capped, lanthanide doped GdF₃ nanoparticles: Luminescent and T₂ contrast agents for optical and MRI multimodal imaging
(2012) Nanoscale, 4 (24), pp. 7682-7689. Cited 18 times.
DOI: 10.1039/c2nr31796f
DOCUMENT TYPE: Article
SOURCE: Scopus

Trevisani, M., Ivanovskikh, K.V., Piccinelli, F., Speghini, A., Bettinelli, M.
Fast UV luminescence of Pr³⁺-doped calcium lutetium whitlockite
(2012) ECS Transactions, 41 (37), pp. 11-17.
DOI: 10.1149/1.3697440
DOCUMENT TYPE: Conference Paper
SOURCE: Scopus

Ivanovskikh, K.V., Meijerink, A., Piccinelli, F., Speghini, A., Ronda, C., Bettinelli, M.
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