

# Łukasz Marciniak

## Lista publikacji

Z dnia 31 października 2015

### Książki i monografie

1. Marciniak L., ***Synthesis and luminescent properties of nanocrystalline, stoichiometric phosphors of rare earth ions***, Wydawnictwo Instytutu Niskich Temperatur I Badań Strukturalnych PAN, 2014, ISBN 978-83-939559-2-3

### Publikacje w czasopismach

1. Marciniak L., Guyot Y., Hreniak D., Strek W., 2015, ***The impact of  $\text{Eu}^{3+}$  concentration on charge transfer and f-f transitions in  $\text{KLa}_{1-x}\text{Eu}_x\text{P}_4\text{O}_{12}$  nanocrystals***, *Journal of Luminescence* 169, 238.
2. Marciniak L., Bednarkiewicz A., Stefanski M., Tomala R., Hreniak D., Strek W., 2015, ***Near infrared absorbing near infrared emitting highly -sensitive luminescent nanothermometer based on  $\text{Nd}^{3+}$  to  $\text{Yb}^{3+}$  energy transfer***, *Physical Chemistry Chemical Physics* 17, 24315.
3. Marciniak L., Stefanski M., Tomala R., Hreniak D., Strek W., 2015, ***Synthesis and up-conversion luminescence of  $\text{Er}^{3+}$  and  $\text{Yb}^{3+}$  codoped nanocrystalline tetra- ( $\text{KLaP}_4\text{O}_{12}$ ) and pentaphosphates ( $\text{LaP}_5\text{O}_{14}$ )***, *Journal of Chemical Physics* 143, 094701.
4. Dusza M., Stefanski M., Wozniak M., Hreniak D., Gerasymchuk Y., Marciniak L., Granek F., Strek W., 2015, ***Luminescent  $\text{Sr}_2\text{CeO}_4$  nanocrystals for applications in organic solar cells with conjugated polymers***, *Journal of Luminescence*, 169, 857.
5. Tomala R., Marciniak L., Li J., Pan Y., Lenczewska K., Strek W., Hreniak D., 2015, ***Comprehensive study of photoluminescence and cathodoluminescence of  $\text{YAG}:\text{Eu}^{3+}$  nano- and microceramics***, *Optical Materials*, 50, 59.
6. Ivanov M., Kopylov Yu., Kravchenko V., Li J., Pan Y., Kynast U., Leznina M., Strek W., Marciniak L., Palashov O., Snetkov I., Mukhin I., Spassky D., 2015, ***Optical, luminescent and laser properties of highly transparent ytterbium doped yttrium lanthanum oxide ceramics***, *Optical Materials*, 50, 15.
7. Utochnikova V. V., Kovalenko A. D., Burlov A. D., Marciniak L., Ananyev I., Sergeevna A., Kalyakina, Kurchavov N. A., Kuzmina N. P., 2015, ***Highly NIR emitting lanthanide complexes with 2-(tosylamino)benzylidene-N-benzoylhydrazone***, *Dalton Transactions*, 44, 12660.

8. Stefanski M., Marciniak L., Hreniak D., Strek W., 2015, ***Influence of grain size on optical properties of Sr<sub>2</sub>CeO<sub>4</sub> nanocrystals***, *Journal of Chemical Physics*, 142 184701.
  
9. Pazik R., Maczka M., Malecka M., Marciniak L., Ekner-Grzyb A., Mrówczyńska L., Wiglusz R. J., 2015, ***Functional up-converting SrTiO<sub>3</sub>:Er<sup>3+</sup>/Yb<sup>3+</sup> nanoparticles, structural features, particle size colour tuning and in vitro RBC cytotoxicity***, *Dalton Transactions* 44, 10267.
  
10. Marciniak L., Hreniak D., Strek W., Piccinelli F., Speghini A., Bettinelli M., Miritello M., Savio R. Lo, Cardile P., Priolo F., 2015, ***Spectroscopic and structural Properties of polycrystalline Y<sub>2</sub>Si<sub>2</sub>O<sub>7</sub> doped with Er<sup>3+</sup>***, *Journal of Luminescence*, 170, 614.
  
11. Marciniak L., Strek W., Guyot Y., Hreniak D., Boulon G., 2015, ***Synthesis and Nd<sup>3+</sup> Luminescence Properties of ALa<sub>1-x</sub>Nd<sub>x</sub>P<sub>4</sub>O<sub>12</sub> (A=Li, Na, K, Rb) Tetraphosphate Nanocrystals***, *Journal of Physical Chemistry C* 119, 5160-5167.
  
12. Strek W., Cichy B., Radosinski L., Gluchowski P., Marciniak L., Lukaszewicz M., Hreniak D., 2015, ***Laser induced white-light emission from graphene ceramics – opening bandgap in graphene***, *Light: Science and Applications*, 4, e237.
  
13. Marciniak L., Strek W., Hreniak D., Guyot Y., 2014, ***Temperature of anti-Stokes white emission in LiYbP<sub>4</sub>O<sub>12</sub>:Er nanocrystals***, *Applied Physics Letters* 105, 173113.
  
14. Marciniak L., Stefanski M., Tomala R., Hreniak D., Strek W., 2015, ***Size effect in luminescent properties of LiNdP<sub>4</sub>O<sub>12</sub> nanocrystals***, *Optical Materials* 41, 17.
  
15. Wiglusz R., Marciniak L., Pazik R., Strek W., 2014, ***Structural and spectroscopic characterization of Nd<sup>3+</sup>-doped YVO<sub>4</sub> yttrium orthovanadate nanocrystalline***, *Crystal Growth and Design* 14, 5512.
  
16. Cichos J., Marciniak L., Hreniak D., Stręk W., Karbowski M., 2014, ***The effect of surface ligand, solvent and Yb<sup>3+</sup> co-doping on luminescence properties of Er<sup>3+</sup> in colloidal NaGdF<sub>4</sub> nanocrystals***, *Journal of Material Chemistry C* 2, 8244.
  
17. Marciniak L., Strek W., Guyot Y., Hreniak D., 2014, ***Synthesis and luminescent properties of La<sub>1-x</sub>Nd<sub>x</sub>P<sub>5</sub>O<sub>14</sub> nanocrystals***, *Physical Chemistry Chemical Physics* 16, 18004.

18. Giang L. T. K., Marciniak L., Anh T. K., Binh N. T., Lojkowski W., Minh L. Q., 2015, ***Fabrication, characterization and upconversion emission properties of nanoparticles NaYF<sub>4</sub> doped with rare earth ions Er<sup>3+</sup> and Tm<sup>3+</sup>***, *International Journal of Nanotechnology*, 12, 538.
  
19. Saladino M. L., Chillura Martino D. F., Floriano M. A., Hreniak D., Marciniak Ł., Strek W., Caponetti E., 2014, ***Ce: Y<sub>3</sub>Al<sub>5</sub>O<sub>12</sub>-polymethylmethacrylate Composite for White Light Emitting Diode***, *Journal of Physical Chemistry C*, 118, 9107.
  
20. Marciniak L., Hreniak D., Strek W., 2014, ***Controlling luminescence colour through concentration of Dy<sup>3+</sup> ions in LiLa<sub>1-x</sub>Dy<sub>x</sub>P<sub>4</sub>O<sub>12</sub> nanocrystals***, *Journal of Material Chemistry C* 2 5704.
  
21. Shuvaev S., Utochnikova V., Marciniak L., Freidzon A., Sinev I., Van Deun R., Freire R. O., Zubavichus Y., Grunert W., Kuzmina N., 2014, ***Lanthanide complexes with aromatic o-phosphorylated ligands: synthesis, structure elucidation and photophysical properties***, *Dalton Transactions* 43, 3121.
  
22. Marciniak L., Strek W., Hreniak D., 2014, ***Cooperative absorption transitions in LiLa<sub>1-x</sub>Nd<sub>x</sub>P<sub>4</sub>O<sub>12</sub> nanocrystals***, *Journal of Luminescence* 148, 214.
  
23. Marciniak L., Strek W., Hreniak D., 2013, ***Subresonantly excited Nd<sup>3+</sup> fluorescence in LiLa<sub>1-x</sub>Nd<sub>x</sub>P<sub>4</sub>O<sub>12</sub> nanocrystals***, *Chemical Physics Letters*, 583, 151.
  
24. Mendoza-Mendoza E., Montemayor S. M., Maczka M., Marciniak L., Fuentes A. F., 2013, ***A facile and „green-chemistry” method to synthesize pure and Nd-doped Y<sub>3</sub>Al<sub>5</sub>O<sub>12</sub> nanopowders at low-temperatures***, *Ceramics International*, 39, 9405.
  
25. Strek W., Marciniak L., Gluchowski P., Hreniak D., 2013, ***Infrared laser stimulated broadband white emission of Yb<sup>3+</sup>:YAG nanoceramics***, *Optical Materials*, 35, 2013.
  
26. Gaft M., Strek W., Nagli L., Panczer G., Rossman G.R., Marciniak L., 2012, ***Laser-induced time-resolved luminescence of natural sillimanite Al<sub>2</sub>SiO<sub>5</sub> and synthetic Al<sub>2</sub>SiO<sub>5</sub> activated by chromium***, *Journal of Luminescence*, 132, 2855.
  
27. Marciniak Ł., Strek W., Lukowiak A., Bednarkiewicz A., Wiglusz R., Hreniak D., 2013, ***Infrared Induced White Anti-stokes Emission of LiYbP<sub>4</sub>O<sub>12</sub> Nanocrystals***, *Nano-Optics for Enhancing Light-Matter Interactions on a Molecular Scale NATO Science for Peace and Security Series B: Physics and Biophysics* 423 978-94-007-5312-9.

28. Passuello T., Piccinelli F., Trevisani M., Giarola M., Mariotto G., Marciniak L., Hreniak D., Guzik M., Fasoli M., Vedda A., Jarý V., Nikl M., Causin V., Bettinelli M., Speghini A., 2012, **Structural and optical properties of Vernier phase lutetium oxyfluorides doped with lanthanide ions: interesting candidates as scintillators and X-Ray phosphors**, *Journal of Material Chemistry* 22, 10639.
29. Strek W., Marciniak L., Hreniak D., Lukowiak A., 2012, **Anti-Stokes bright yellowish emission of NdAlO<sub>3</sub> nanocrystals**, *Journal of Applied Physics* 111, 024305.
30. Marciniak L., Strek W., Bednarkiewicz A., Hreniak D., Pujol M. C., Diaz F., 2013, **Upconversion emission of LiNdP<sub>4</sub>O<sub>12</sub> and KNdP<sub>4</sub>O<sub>12</sub> crystals**, *Journal of Luminescence* 133, 57.
31. Hreniak D., Marciniak L., Strek W., Piccinelli F., Speghini A., Bettinelli M., 2011, **Comment on "Colossal dielectric and magnetodielectric effect in Er<sub>2</sub>O<sub>3</sub> nanoparticles embedded in a SiO<sub>2</sub> glass matrix"**, *Physical Review B* 84, 056102.
32. Strek W., Marciniak L., Bednarkiewicz A., Lukowiak A., Wiglusz R., Hreniak D., 2011, **White emission of lithium ytterbium tetrphosphate nanocrystals**, *Optics Express* 19, 14083.
33. Marciniak L., Strek W., Bednarkiewicz A., Lukowiak A., Hreniak D., 2011, **Bright upconversion emission of Nd<sup>3+</sup> in LiLa<sub>1-x</sub>Nd<sub>x</sub>P<sub>4</sub>O<sub>12</sub> nanocrystalline powders**, *Optical Materials*, 33, 1492.
34. Strek W., Marciniak L., Bednarkiewicz A., Lukowiak A., Hreniak D., Wiglusz R., 2010, **The effect of pumping power on fluorescence behavior of LiNdP<sub>4</sub>O<sub>12</sub> nanocrystals**, *Optical Materials*, 33, 1097.
35. Strek W., Marciniak L., Lukowiak A., Bednarkiewicz A., Hreniak D., Wiglusz R., 2010, **Synthesis and luminescence properties of LiLa<sub>1-x</sub>Nd<sub>x</sub>P<sub>4</sub>O<sub>12</sub> nanocrystals**, *Optical Materials*, 33, 131.
36. Marciniak L., Hreniak D., Dobrowolska A., Zych E., 2010, **Size-dependent luminescence in Y<sub>2</sub>Si<sub>2</sub>O<sub>7</sub> nanoparticles doped with Ce<sup>3+</sup> ions**, *Applied Physics A* 99, 871