

Mateusz Bański

Lista publikacji

z dnia 31 października 2013

Publikacje w czasopismach

1. Banski M., Podhorodecki A., Misiewicz J., 2013, ***NaYF₄ nanocrystals with TOPO ligands: synthesis dependent structural and luminescent properties***, Physical Chemistry Chemical Physics, 15: 19232 – 19241
2. Zatryb G., Podhorodecki A., Serafinczuk J., Motyka M., Banski M., Misiewicz J., Gaponenko N. V., 2013, ***Optical properties of Tb and Eu doped cubic YAlO₃ phosphors synthesized by sol-gel method***, Optical Materials, 35: 2090 – 2094
3. Zatryb G., Podhorodecki A., Banski M., Misiewicz J., Gaponenko N. V., 2013, ***Influence of annealing temperature on the electron-lattice coupling strength in terbium doped yttrium alumina perovskite xerogels embedded in nano-porous anodic alumina***, Optical Materials, 35: 1230 – 1235
4. Banski M., Podhorodecki A., Misiewicz J., Afzaal M., Abdelhady A., O'Brien P., 2013, ***Selective Excitation of Eu³⁺ in the Core of Small β-NaGdF₄ Nanocrystals***, Journal of Materials Chemistry C, 1, 801 – 807
5. Podhorodecki A., Banski M., Nocolak A., Sojka B., Pawlik G., Misiewicz J., 2013, ***On the nature of carriers relaxation and ion-ion interactions in ultrasmall β-NaYF₄:Eu³⁺ nanocrystals - effect of the surface***, Nanoscale, 5, 429 – 436
6. Banski M., Afzaal M., Podhorodecki A., Misiewicz J., Abdelhady A., O'Brien P., 2012, ***Passivation of lanthanide surface sites in sub-10 nm NaYF₄:Eu³⁺ nanocrystals***, Journal of Nanoparticle Research, 14: 1228
7. Podhorodecki A., Banski M., Misiewicz J., Afzaal M., O'Brien P., Cha D., Wang X., 2012, ***The Multicolor light emitters based on energy exchange between Tb and Eu ions co-doped into ultrasmall β-NaYF₄ nanocrystals***, Journal of Materials Chemistry, 22: 5356-5361
8. Podhorodecki A., Gaponenko N. V., Banski M., Sieradzki A., Misiewicz J., 2012, ***Green emission from barium strontium titanate introduced into nanoporous substrate***, Optical Materials, 34: 1570–1574
9. Akhtar J., Afzaal M., Banski M., Podhorodecki A., Syperek M., Misiewicz J., Bangert U., Hardman S. J. O., Graham D. M., Flavell W. R., Binks D. J., Gardonio S., O'Brien P., 2011, ***Controlled Synthesis of Tuned Bandgap Nanodimensional Alloys of PbS_xSe_{1-x}***, Journal of the American Chemical Society 133: 5602–5609
10. Podhorodecki A., Banski M., Misiewicz J., Lecerf C., Marie P., Cardin J., Portier X., 2010, ***Influence of neodymium concentration on excitation and emission properties of Nd doped gallium oxide nanocrystalline films***, Journal of Applied Physics 108: 063535-1 - 063535-6
11. Podhorodecki A., Banski M., Misiewicz J., Serafinczuk J., Gaponenko N.V., 2010, ***Influence of annealing temperature on terbium luminescence in yttrium-aluminum oxide films deposited onto porous anodic alumina***, Journal of the Electrochemical Society 157: H628- H632
12. Banski M., Podhorodecki A., Misiewicz J., 2010, ***Influence of sol-gel matrices on the optical excitation of europium ions (Eu³⁺)***, Materials Science-Poland 28: 217-227

Prace pokonferencyjne i doniesienia zjazdowe:

1. Podhorodecki A., Banski M., Misiewicz J., 2011, ***Synthesis and optical properties of lanthanides based inorganic markers for bio-medical applications***, *Biopolymers and Cell* 27: 154-157
2. Podhorodecki A., Banski M., Misiewicz J., Gaponenko N. V., Kim T., 2010, ***Excitation mechanisms of green emission from terbium ions embedded inside the sol-gel films deposited onto nano-porous substrates***, *ECS Transactions* 28: 81-88
3. Banski M., Podhorodecki A., Misiewicz J., 2008, ***Influence of sol-gel matrices on optical propertiece of Europium ion (Eu^{3+})***, [w:] *VI Konferencja Naukowa Studentów 'Człowiek - Cywilizacja - Przyszłość'. Referaty*, Oficyna Wydawnicza Politechniki Wrocławskiej
4. Banski M., Podhorodecki A., Misiewicz J., 2007, ***Influence of temperature on mechanism of absorption and recombination in silicon***, [w:] *V Konferencja Naukowa Studentów 'Człowiek - Cywilizacja - Przyszłość'. Referaty*, Oficyna Wydawnicza Politechniki Wrocławskiej