



A.V. Racu

Scientific Researcher at INCEMC - repvl.ro;
PhD candidate at
UVT

Materials science
Luminescent materials
Optical spectroscopy
Erbium
Hydrothermal synthesis

	Toate	Din 2016
Referințe bibliografice	85	72
h-index	3	3
i10-index	3	2

1 articol 0 articole

indisponibile disponibile

Pe baza cerințelor privind finanțarea

TITLU	CITAT DE	ANUL
Direct low temperature hydrothermal synthesis of YFeO3 microcrystals AV Racu, DH Ursu, OV Kuliukova, C Logofatu, A Leca, M Miclau Materials Letters 140, 107-110	40	2015
Facile hydrothermal synthesis of economically viable VO2 (M1) counter electrode for dye sensitized solar cells GR Mutta, SR Popuri, M Vasundhara, M Maciejczyk, AV Racu, R Banica, ... Materials Research Bulletin 83, 135-140	24	2016
Synthesis and characterization of GaP nanoparticles for light emissive devices SL Pyshkin, J Ballato, S Belevschii, E Rusu, A Racu, D Van DerVeer, ... NSTI-NanoTech Conference, Boston, MA, 327-330	11	2011
Spectroscopic properties of the gamma irradiated ErF3-DOPED BaF2 crystals M Stef, I Nicoara, A Racu, G Buse, D Vizman Radiation Physics and Chemistry 176, 109024	3	2020
Growth and characterization of ErF3 doped BaF2 crystals I Nicoara, M Stef, G Buse, A Racu Journal of Crystal Growth 547, 125817	2	2020
Rapid combustion synthesis of Cu2Y2O5 as a precursor for CuYO2 delafossite AV Racu, R Baies, SR Popuri, MC Pascariu, M Niculescu, R Banica Materials Today Communications 14, 233-239	2	2018
Influence of precursor crystallinity on photocatalytic activity of PdS/CdS-ZnS P Svera, AV Racu, C Mosoarca, D Ursu, PA Linul, R Baies, R Banica Journal of Optoelectronics and Advanced Materials 18 (November-December 2016 ...	2	2016
Hydrothermal synthesis of ZnIn2S4 microspheres under controlled pressure B Radu, U Daniel, AV Racu, V Nicolae NANOCON 2014-Conference Proceedings, 6th International Conference, 208-213	1 *	2014
Luminescence Properties and Judd–Ofelt Analysis of Various ErF3 Concentration-Doped BaF2 Crystals A Racu, M Stef, G Buse, I Nicoara, D Vizman Materials 14 (15), 4221		2021

TITLU	CITAT DE	ANUL
Influence of the Er³⁺ dopant concentration on the photoluminescence OF Y_{2-x}Er_xO₃ micropowders A Racu Materials Science and Condensed Matter Physics, 189-189		2018
LUMINESCENT NANOPARTICLES OBTAINED BY THERMAL DECOMPOSITION OF COORDINATION COMPOUNDS AV Racu, MC Pascariu, B Țăranu, LA Božin, E Șișu, M Niculescu New Frontiers in Chemistry 26 (2), S1_P6-S1_P6		2017
Comparative study of luminescence concentration quenching of 4S_{3/2} state in Y_{2-x}Er_xO₃ and Y_{3-x}Er_xGa₅O₁₂ A Racu, MC Pascariu, I Sebarchievici, Z Szabadai, A Micu, O Kulikova, ... Materials Science and Condensed Matter Physics, 242-242		2016
Solvothermal synthesis of colloidal InP nanoparticles L Sirbu, T Gutul, A Todosiciuc, A Racu		2014
Raman scattering in YFeO₃ orthoferrites microcrystals O Kulikova, AV Racu, M Miclau		2014
Photoluminescence excitation, emission and kinetics of Y₂O₃:Er selectively pumped in erbium energy levels ²H_{11/2}, ⁴F_{9/2} AV Racu, R Banica		2014
Colloidal InP nanocrystal L Sirbu, L Ghimpu, T Gutul, A Todosiciuc, A Racu		2013
Vis and nir photoluminescence of Y_{1-x}Er_xO₃ selectively pumped in erbium energy levels ²H_{11/2}, ⁴F_{9/2} A Racu Moldavian Journal of the Physical Sciences 12 (3-4), 172-180		2013
InP nanodots synthesis and characterization by Raman and XRD spectroscopy L Sirbu, A Todosiciuc, A Burlacu, A Racu		2012
Photoluminescence of composites with GaP nano crystals A Cuznetov, O Kulikova, A Siminel, A Racu, A Todosiciuc		2012
CPPP 42 P Influence of impulse laser radiation on major parameters of luminescence of gallium phosphide single crystals doped and subjected to long-term ordered O Kulikova, R Zhitaru, A Racu Materials Science and Condensed Matter Physics, 181-181		2012