

Vladyslav Seminko

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Oscillations of Cerium Oxidation State Driven by Oxygen Diffusion in Colloidal Nanoceria (CeO _{2-x}). Nanoscale Research Letters, 2017, 12, 566.	5.7	29
2	Mechanism and Dynamics of Fast Redox Cycling in Cerium Oxide Nanoparticles at High Oxidant Concentration. Journal of Physical Chemistry C, 2021, 125, 4743-4749.	3.1	22
3	Limitations of Self-Regenerative Antioxidant Ability of Nanoceria Imposed by Oxygen Diffusion. Journal of Physical Chemistry C, 2018, 122, 16406-16411.	3.1	20
4	Defect and intrinsic luminescence of CeO ₂ nanocrystals. Physica Status Solidi (B): Basic Research, 2017, 254, 1600488.	1.5	19
5	Janus-Faced Redox Activity of LnVO ₄ :Eu ³⁺ (Ln = Gd, Y, and La) Nanoparticles. Journal of Physical Chemistry C, 2019, 123, 15323-15329.	3.1	19
6	Hydrogen peroxide sensing using Ce ³⁺ luminescence of cerium oxide (CeO _{2-x}) nanoparticles. Optical Materials, 2018, 85, 303-307.	3.6	18
7	Low-temperature spectroscopy of optical centers in cerium-yttrium (Ce _{1-x} Y _x O _{2-x/2}) and cerium-zirconium (Ce _{1-x} Zr _x O ₂) oxides. Low Temperature Physics, 2017, 43, 636-640.	0.6	12
8	Catalytic Decomposition of Hypochlorite Anions by Ceria Nanoparticles Visualized by Spectroscopic Techniques. Journal of Physical Chemistry C, 2019, 123, 20675-20681.	3.1	11
9	Switching the type of redox activity of colloidal nanoceria by Re ³⁺ (Re = Y, Eu, Tb) doping. Chemical Physics Letters, 2021, 767, 138363.	2.6	10
10	High antioxidant activity of gadolinium-yttrium orthovanadate nanoparticles in cell-free and biological milieu. Nanotechnology, 2022, 33, 055701.	2.6	9
11	Wavelength-Selective Photoreduction of Colloidal CeO _{2-x} Nanocrystals. Physica Status Solidi (B): Basic Research, 2019, 256, 1900325.	1.5	6
12	Processes of excitation energy transport in EuPO ₄ and EuP ₃ O ₉ nanocrystals. Low Temperature Physics, 2017, 43, 1009-1012.	0.6	5
13	Different Roles of Ce ³⁺ Optical Centers in Oxyorthosilicate Nanocrystals at X-ray and UV Excitation. Crystals, 2019, 9, 114.	2.2	4
14	Quantum splitting in praseodymium-doped lanthanum aluminum dimetaborate crystals at X-ray excitation. Spectroscopy Letters, 2017, 50, 359-363.	1.0	3
15	Processes of energy migration in mixed europium-lanthanum magnesium borate nanocrystals. Spectroscopy Letters, 2017, 50, 399-403.	1.0	3
16	Anomalous enhancement of radioluminescence in Lu _{2-x} Y _x SiO ₅ :Ce ³⁺ and Zn _x Mg _{1-x} WO ₄ mixed oxide nanocrystals. Optical Materials, 2019, 98, 109455.	3.6	3
17	UV-Light-Activated (Gd,Y)VO ₄ :Eu ³⁺ Nanoparticles for Radiotherapy Enhancement. Journal of Physical Chemistry C, 2022, 126, 9371-9377.	3.1	2
18	Energy migration processes in phosphate nanocrystals: Size and dimensionality dependence. Low Temperature Physics, 2018, 44, 438-443.	0.6	1

#	ARTICLE	IF	CITATIONS
19	Development of Nanocomposite Alpha-Detectors Based on Silica Matrices and Organic Scintillators. NATO Science for Peace and Security Series A: Chemistry and Biology, 2015, , 415-419.	0.5	0
20	Influence of Zr-doping on the luminescence properties of ceria nanocrystals. , 2016, , .		0
21	Controlling luminescent and redox properties of nanoceria. Visnik Nacional Noi Akademii Nauk Ukraini, 2022, , 57-63.	0.3	0