

Arik Kar

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4395170/publications.pdf>

Version: 2024-02-01

34
papers

1,616
citations

331670

21
h-index

414414

32
g-index

35
all docs

35
docs citations

35
times ranked

2214
citing authors

#	ARTICLE	IF	CITATIONS
1	Surface Defect-Related Luminescence Properties of SnO ₂ Nanorods and Nanoparticles. Journal of Physical Chemistry C, 2011, 115, 118-124.	3.1	304
2	Impacts of core-shell structures on properties of lanthanide-based nanocrystals: crystal phase, lattice strain, downconversion, upconversion and energy transfer. Nanoscale, 2012, 4, 3608.	5.6	130
3	Optical and Electrical Properties of Eu ³⁺ -Doped SnO ₂ Nanocrystals. Journal of Physical Chemistry C, 2009, 113, 4375-4380.	3.1	100
4	Modulating the properties of SnO ₂ nanocrystals: morphological effects on structural, photoluminescence, photocatalytic, electrochemical and gas sensing properties. Journal of Materials Chemistry C, 2020, 8, 4604-4635.	5.5	88
5	Energy transfer study between Ce ³⁺ and Tb ³⁺ ions in doped and core-shell sodium yttrium fluoride nanocrystals. Nanoscale, 2010, 2, 1196.	5.6	86
6	Fabrication and optical properties of core/shell CdS/LaPO ₄ :Eu nanorods. Journal of Materials Chemistry, 2010, 20, 916-922.	6.7	71
7	Recent development of core-shell SnO ₂ nanostructures and their potential applications. Journal of Materials Chemistry C, 2014, 2, 6706-6722.	5.5	71
8	Photocatalytic properties of semiconductor SnO ₂ /CdS heterostructure nanocrystals. RSC Advances, 2012, 2, 10222.	3.6	66
9	Influence of Size and Shape on the Photocatalytic Properties of SnO ₂ Nanocrystals. ChemPhysChem, 2015, 16, 1017-1025.	2.1	64
10	Facile synthesis of SnO ₂ -PbS nanocomposites with controlled structure for applications in photocatalysis. Nanoscale, 2016, 8, 2727-2739.	5.6	60
11	Structural interpretation of SnO ₂ nanocrystals of different morphologies synthesized by microwave irradiation and hydrothermal methods. CrystEngComm, 2014, 16, 1079-1090.	2.6	57
12	Morphological effects on the photocatalytic properties of SnO ₂ nanostructures. Journal of Alloys and Compounds, 2019, 810, 151718.	5.5	57
13	Facile Chemical Synthesis of Nanocrystalline Thermoelectric Alloys Based on Bi ² Sb ² Te ³ Se. Crystal Growth and Design, 2010, 10, 3983-3989.	3.0	52
14	Structural and photoluminescence properties of doped and core-shell LaPO ₄ :Eu ³⁺ nanocrystals. Journal of Applied Physics, 2010, 108, .	2.5	51
15	Lanthanide-Doped Nanocrystals: Strategies for Improving the Efficiency of Upconversion Emission and Their Physical Understanding. ChemPhysChem, 2015, 16, 505-521.	2.1	51
16	Influence of surface coating on the upconversion emission properties of LaPO ₄ :Yb/Tm core-shell nanorods. Journal of Applied Physics, 2009, 105, 113532.	2.5	39
17	Synthesis and characterization of different shaped Sm ₂ O ₃ nanocrystals. Journal Physics D: Applied Physics, 2010, 43, 405401.	2.8	33
18	A simple approach to generate efficient white light emission from a ZnO-ionic liquid complex. RSC Advances, 2012, 2, 4879.	3.6	29

#	ARTICLE	IF	CITATIONS
19	Structural Changes and Spectroscopic Properties of Ce ³⁺ -Ion-Doped Sodium Yttrium Fluoride Nanocrystals: Influences of Sonication and Temperature. <i>Journal of Physical Chemistry C</i> , 2010, 114, 715-722.	3.1	28
20	Morphology dependent luminescence properties of rare-earth doped lanthanum fluoride hierarchical microstructures. <i>Journal of Luminescence</i> , 2012, 132, 1400-1406.	3.1	25
21	Recent Advances of Doping of SnO ₂ Nanocrystals for Their Potential Applications. <i>Transactions of the Indian Ceramic Society</i> , 2013, 72, 89-99.	1.0	22
22	A comparative structural and photocatalytic study on SnO ₂ nanoparticles fabricated in batch reactor and microreactor. <i>Journal of Environmental Chemical Engineering</i> , 2020, 8, 104604.	6.7	22
23	Targeting low-cost type-II heterostructures: Synthesis, structure and photoreactivity. <i>Journal of Alloys and Compounds</i> , 2017, 698, 944-956.	5.5	20
24	Band Gap Tuning of Photo Fenton-like Fe ₃ O ₄ /C Catalyst through Oxygen Vacancies for Advanced Visible Light Photocatalysis. <i>Materials Advances</i> , 0, , .	5.4	15
25	Lanthanide based resonance energy transfer (LRET) between Ce-doped LaPO ₄ nanorods and coumarin 440 dye. <i>RSC Advances</i> , 2013, 3, 13372.	3.6	14
26	A ratiometric triazine-based colorimetric and fluorometric sensor for the recognition of Zn ²⁺ ions and its application in human lung cancer cells. <i>Analytical Methods</i> , 2021, 13, 3922-3929.	2.7	12
27	Microstructure and photoluminescence properties of ternary Cd _{0.2} Zn _{0.8} S quantum dots synthesized by mechanical alloying. <i>Journal of Nanoparticle Research</i> , 2014, 16, 1.	1.9	9
28	Recent Advances on the Optical Properties of Eu ³⁺ Ion in Nano-Systems. <i>Journal of Nanoscience and Nanotechnology</i> , 2018, 18, 8047-8069.	0.9	9
29	Core-Shell (CS) Nanostructures and Their Application Based on Magnetic and Optical Properties. <i>Reviews in Nanoscience and Nanotechnology</i> , 2013, 2, 106-126.	0.4	9
30	A one-pot fluorogenic cascade cyclization reaction <i>via</i> BF ₃ -sensing. <i>Analyst</i> , The, 2021, 146, 2998-3003.	3.5	7
31	A dual-channel chemodosimetric sensor for discrimination between hypochlorite and nerve-agent mimic DCP: application on human breast cancer cells. <i>Organic and Biomolecular Chemistry</i> , 2022, 20, 4803-4814.	2.8	7
32	Visible light photocatalysts from low-grade iron ore: the environmentally benign production of magnetite/carbon (Fe ₃ O ₄ /C) nanocomposites. <i>Environmental Science and Pollution Research</i> , 2022, 29, 6698-6709.	5.3	5
33	Reducing indium dependence by heterostructure design in SnO ₂ -In ₂ S ₃ nanocomposites. <i>Materials Chemistry and Physics</i> , 2022, 277, 125463.	4.0	3
34	An Investigation into the Influence of α -Quartz Phase Transition on Banded Iron Ore Comminution. <i>Jom</i> , 0, , 1.	1.9	0