

Katarzyna Matras-Postolek

List of Publications by Year in descending order

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Version: 2024-02-01

50
papers

995
citations

430874

18
h-index

454955

30
g-index

50
all docs

50
docs citations

50
times ranked

1544
citing authors

#	ARTICLE	IF	CITATIONS
1	MoS ₂ /CoS ₂ heterostructures embedded in N-doped carbon nanosheets towards enhanced hydrogen evolution reaction. <i>Journal of Alloys and Compounds</i> , 2022, 891, 161962.	5.5	32
2	SnO ₂ clusters embedded in TiO ₂ nanosheets: Heterostructures and gas sensing performance. <i>Sensors and Actuators B: Chemical</i> , 2022, 357, 131433.	7.8	17
3	Mn-derived Cs ₄ PbX ₆ nanocrystals with stable and tunable wide luminescence for white light-emitting diodes. <i>Journal of Materials Chemistry C</i> , 2022, 10, 3886-3893.	5.5	13
4	Ni ₂ P nanosheets modified N-doped hollow carbon spheres towards enhanced supercapacitor performance. <i>Journal of Alloys and Compounds</i> , 2021, 854, 157111.	5.5	29
5	Transition metal halide derived phase transition from Cs ₄ PbCl ₆ to CsPb _x M _{1-x} X ₃ for bright white light-emitting diodes. <i>Journal of Materials Chemistry C</i> , 2021, 9, 5732-5739.	5.5	22
6	Construction of 2D/2D MoS ₂ /g-C ₃ N ₄ Heterostructures for Photoreduction of Cr (VI). <i>Langmuir</i> , 2021, 37, 6337-6346.	3.5	22
7	Mn:CsPbBr ₃ Nanoplatelets for Bright White-Emitting Displays. <i>ACS Applied Nano Materials</i> , 2021, 4, 6223-6230.	5.0	37
8	2D/2D MoS ₂ /g-C ₃ N ₄ layered heterojunctions with enhanced interfacial electron coupling effect. <i>Journal of Electroanalytical Chemistry</i> , 2021, 893, 115350.	3.8	26
9	2D Layered g-C ₃ N ₄ /WO ₃ /WS ₂ S-Scheme Heterojunctions with Enhanced Photochemical Performance. <i>Journal of Physical Chemistry C</i> , 2021, 125, 19382-19393.	3.1	53
10	Mesoporous Silica-Coated CsPbX ₃ Nanocrystals with High Stability and Ion-Exchange Resistance for Bright White-Emitting Displays. <i>ACS Applied Nano Materials</i> , 2021, 4, 9391-9400.	5.0	19
11	Hierarchical FeCo/C@Ni(OH) ₂ heterostructures for enhanced oxygen evolution activity. <i>Electrochimica Acta</i> , 2021, 395, 139194.	5.2	8
12	Photodegradation Process of Organic Dyes in the Presence of a Manganese-Doped Zinc Sulfide Nanowire Photocatalyst. <i>Materials</i> , 2021, 14, 5840.	2.9	3
13	Thermo-Optical Switching Effect Based on a Tapered Optical Fiber and Higher Alkanes Doped with ZnS:Mn. <i>Materials</i> , 2020, 13, 5044.	2.9	4
14	Modification of Higher Alkanes by Nanoparticles to Control Light Propagation in Tapered Fibers. <i>Micromachines</i> , 2020, 11, 1006.	2.9	1
15	Crystal structure and luminescence of Cs-Pb-Sn-Br nanocrystals. <i>Journal of Nanoparticle Research</i> , 2020, 22, 1.	1.9	3
16	Color-tunable carbon dots via control the degree of self-assembly in solution at different concentration. <i>Journal of Luminescence</i> , 2019, 212, 69-75.	3.1	14
17	Effect of Cd precursors on luminescence of CdTe quantum dots and their luminescent temperature action. <i>Journal of Luminescence</i> , 2019, 211, 394-400.	3.1	4
18	Synthesis and characterization of ZnSe and ZnSe:Mn nanosheets and microflowers with high photoactive properties by microwave-assisted method. <i>Chemical Engineering and Processing: Process Intensification</i> , 2019, 135, 204-216.	3.6	27

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19	Controllable synthesis of P-doped MoS ₂ nanopetals decorated N-doped hollow carbon spheres towards enhanced hydrogen evolution. <i>Electrochimica Acta</i> , 2019, 297, 553-563.	5.2	67
20	Morphology Adjustment of Pure and Doped g-C ₃ N ₄ by Mercapto Group-Induced Assembly Towards Enhanced Photocatalysis. <i>Nanoscience and Nanotechnology Letters</i> , 2019, 11, 804-812.	0.4	2
21	Formation and characterization of one-dimensional ZnS nanowires for ZnS/P3HT hybrid polymer solar cells with improved efficiency. <i>Applied Surface Science</i> , 2018, 451, 180-190.	6.1	20
22	An anion-driven Sn ²⁺ exchange reaction in CsPbBr ₃ nanocrystals towards tunable and high photoluminescence. <i>Journal of Materials Chemistry C</i> , 2018, 6, 5506-5513.	5.5	90
23	Evolution of Morphology, Phase Composition, and Photoluminescence of Cesium Lead Bromine Nanocrystals with Temperature and Precursors. <i>Journal of Physical Chemistry C</i> , 2018, 122, 28968-28976.	3.1	38
24	Luminescent ZnSe:Mn/ZnS@PMMA nanocomposites with improved refractive index and transparency. <i>Journal of Luminescence</i> , 2018, 203, 655-662.	3.1	9
25	Z-scheme reduced graphene oxide/TiO ₂ -Bronze/W ₁₈ O ₄₉ ternary heterostructure towards efficient full solar-spectrum photocatalysis. <i>Carbon</i> , 2018, 139, 415-426.	10.3	115
26	SiO ₂ monomer-triggered self-assembly of hybrid CdTe quantum dots. <i>Chemical Engineering and Processing: Process Intensification</i> , 2017, 122, 357-364.	3.6	1
27	Formation and stability of manganese-doped ZnS quantum dot monolayers determined by QCM-D and streaming potential measurements. <i>Journal of Colloid and Interface Science</i> , 2017, 503, 186-197.	9.4	12
28	Morphology variation of nanofibers from controlling matter diffusion in calcination processes. <i>Materials Chemistry and Physics</i> , 2017, 186, 312-316.	4.0	5
29	Flexible silica films encapsulating hydrophilic CdTe quantum dots for application in white light emitting diodes. <i>Journal of Luminescence</i> , 2017, 181, 63-70.	3.1	7
30	Microwave-assisted heating versus conventional heating in solvothermal and non-solvothermal synthesis of photocatalytic active ZnSe _{0.5} N _{0.5} H ₄ and ZnSe:Mn _{0.5} N _{0.5} H ₄ anisotropic colloidal quasi-two-dimensional hybrid nanoplates. <i>Chemical Engineering and Processing: Process Intensification</i> , 2017, 122, 346-356.	3.6	4
31	Photocatalytic Activity Evolution of Different Morphological TiO ₂ Shells on Ag Nanowires. <i>ChemCatChem</i> , 2016, 8, 839-847.	3.7	22
32	Synthesis of SiO ₂ @AgCl and SiO ₂ @Ag ₃ PO ₄ Nanocomposites via Replacing Reaction <I>In Situ</I> Towards Enhanced Photocatalysis. <i>Journal of Nanoscience and Nanotechnology</i> , 2016, 16, 9794-9799.	0.9	3
33	Au Catalyst Decorated Silica Spheres: Synthesis and High-Performance in 4-Nitrophenol Reduction. <i>Journal of Nanoscience and Nanotechnology</i> , 2016, 16, 5966-5974.	0.9	13
34	Formation of SiO ₂ @SnO ₂ core-shell nanofibers and their gas sensing properties. <i>RSC Advances</i> , 2016, 6, 13371-13376.	3.6	17
35	Highly sensitive visual detection of catalase based on the accelerating decomposition of H ₂ O ₂ using Au nanorods as a sensor. <i>RSC Advances</i> , 2016, 6, 19620-19625.	3.6	16
36	Low toxic and highly luminescent CdSe/Cd _x Zn _{1-x} S quantum dots with thin organic SiO ₂ coating for application in cell imaging. <i>Journal of Nanoparticle Research</i> , 2016, 18, 1.	1.9	11

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37	Hydrophobic CdSe and CdTe quantum dots: shell coating, shape control, and self-assembly. RSC Advances, 2016, 6, 25656-25661.	3.6	4
38	Synthesis and Composition-Dependent Visible Photocatalysis of Ag/AgBr Necklace-Like Heterostructures. ChemPlusChem, 2015, 80, 865-870.	2.8	7
39	Morphology adjustment of SnO ₂ and SnO ₂ /CeO ₂ one dimensional nanostructures towards applications in gas sensing and CO oxidation. RSC Advances, 2015, 5, 98500-98507.	3.6	25
40	Preparation and characteristics of molecularly homogeneous Ag/AgCl nano-heterostructures via a two-step synthesis. RSC Advances, 2015, 5, 17210-17215.	3.6	5
41	Self-modification of TiO ₂ one-dimensional nano-materials by Ti ³⁺ and oxygen vacancy using Ti ₂ O ₃ as precursor. RSC Advances, 2015, 5, 61657-61663.	3.6	40
42	Self-assembly and photoluminescence evolution of hydrophilic and hydrophobic quantum dots in sol-gel processes. Materials Research Bulletin, 2015, 70, 385-391.	5.2	7
43	Self-assembled synthesis of urchin-like AlOOH microspheres with large surface area for removal of pollutants. RSC Advances, 2015, 5, 33155-33162.	3.6	28
44	ZnO nanoflowers with single crystal structure towards enhanced gas sensing and photocatalysis. Physical Chemistry Chemical Physics, 2015, 17, 30300-30306.	2.8	52
45	Morphology evolution of Fe ₂ O ₃ controlled via incorporation of alkaline earth metal ions. CrystEngComm, 2015, 17, 7175-7181.	2.6	16
46	Microwave-Assisted Synthesis of Hybrid Polymer Materials and Composites. Advances in Polymer Science, 2014, , 241-294.	0.8	5
47	Polymer Nanocomposites for Electro-Optics: Perspectives on Processing Technologies, Material Characterization, and Future Application. Advances in Polymer Science, 2010, , 221-282.	0.8	15
48	Development of Carbazole and Bipyridine Copolymers as Novel Photovoltaic Materials. Macromolecular Symposia, 2008, 268, 110-114.	0.7	2
49	Synthesis of Polymethacrylates with Carbazole and Benzofuran Pendant Groups for Photovoltaic Applications. Macromolecular Symposia, 2008, 268, 48-52.	0.7	3
50	Microwave-assisted preparation of ZnS and ZnSe nanocrystals with different morphologies for photodegradation process of organic dyes. , 0, , .		0