Katarzyna Matras-Postolek

List of Publications by Year
in descending order

50	995	430874 18	454955 30
papers	citations	h-index	g-index

50	50	50	1544
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Z-scheme reduced graphene oxide/TiO2-Bronze/W18O49 ternary heterostructure towards efficient full solar-spectrum photocatalysis. Carbon, 2018, 139, 415-426.	10.3	115
2	An anion-driven Sn²⁺ exchange reaction in CsPbBr₃ nanocrystals towards tunable and high photoluminescence. Journal of Materials Chemistry C, 2018, 6, 5506-5513.	5.5	90
3	Controllable synthesis of P-doped MoS2 nanopetals decorated N-doped hollow carbon spheres towards enhanced hydrogen evolution. Electrochimica Acta, 2019, 297, 553-563.	5.2	67
4	2D Layered g-C₃N₄/WO₃/WS₂ S-Scheme Heterojunctions with Enhanced Photochemical Performance. Journal of Physical Chemistry C, 2021, 125, 19382-19393.	3.1	53
5	ZnO nanoflowers with single crystal structure towards enhanced gas sensing and photocatalysis. Physical Chemistry Chemical Physics, 2015, 17, 30300-30306.	2.8	52
6	Self-modification of TiO₂ one-dimensional nano-materials by Ti³⁺ and oxygen vacancy using Ti₂O₃ as precursor. RSC Advances, 2015, 5, 61657-61663.	3.6	40
7	Evolution of Morphology, Phase Composition, and Photoluminescence of Cesium Lead Bromine Nanocrystals with Temperature and Precursors. Journal of Physical Chemistry C, 2018, 122, 28968-28976.	3.1	38
8	Mn:CsPbBr₃ Nanoplatelets for Bright White-Emitting Displays. ACS Applied Nano Materials, 2021, 4, 6223-6230.	5.0	37
9	MoS2/CoS2 heterostructures embedded in N-doped carbon nanosheets towards enhanced hydrogen evolution reaction. Journal of Alloys and Compounds, 2022, 891, 161962.	5.5	32
10	Ni2P nanosheets modified N-doped hollow carbon spheres towards enhanced supercapacitor performance. Journal of Alloys and Compounds, 2021, 854, 157111.	5.5	29
11	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
12	Synthesis and characterization of ZnSe and ZnSe:Mn nanosheets and microflowers with high photoactive properties by microwave-assisted method. Chemical Engineering and Processing: Process Intensification, 2019, 135, 204-216.	3.6	27
13	2D/2D MoS2/g-C3N4 layered heterojunctions with enhanced interfacial electron coupling effect. Journal of Electroanalytical Chemistry, 2021, 893, 115350.	3.8	26
14	Morphology adjustment of SnO₂ and SnO₂/CeO₂ one dimensional nanostructures towards applications in gas sensing and CO oxidation. RSC Advances, 2015, 5, 98500-98507.	3.6	25
15	Photocatalytic Activity Evolution of Different Morphological TiO₂ Shells on Ag Nanowires. ChemCatChem, 2016, 8, 839-847.	3.7	22
16	Transition metal halide derived phase transition from Cs₄PbCl₆ to CsPb_xM_{1â€“x}X₃ for bright white light-emitting diodes. Journal of Materials Chemistry C, 2021, 9, 5732-5739.	5.5	22
17	Construction of 2D/2D MoS₂/g-C₃N₄ Heterostructures for Photoreduction of Cr (VI). Langmuir, 2021, 37, 6337-6346.	3.5	22
18	Formation and characterization of one-dimensional ZnS nanowires for ZnS/P3HT hybrid polymer solar cells with improved efficiency. Applied Surface Science, 2018, 451, 180-190.	6.1	20

#	Article	IF	Citations
19	Mesoporous Silica-Coated CsPbX₃ Nanocrystals with High Stability and Ion-Exchange Resistance for Bright White-Emitting Displays. ACS Applied Nano Materials, 2021, 4, 9391-9400.	5.0	19
20	Formation of SiO₂@SnO₂ coreâ€“shell nanofibers and their gas sensing properties. RSC Advances, 2016, 6, 13371-13376.	3.6	17
21	SnO2 clusters embedded in TiO2 nanosheets: Heterostructures and gas sensing performance. Sensors and Actuators B: Chemical, 2022, 357, 131433.	7.8	17
22	Morphology evolution of Î±-Fe₂O₃controlled via incorporation of alkaline earth metal ions. CrystEngComm, 2015, 17, 7175-7181.	2.6	16
23	Highly sensitive visual detection of catalase based on the accelerating decomposition of H₂O₂ using Au nanorods as a sensor. RSC Advances, 2016, 6, 19620-19625.	3.6	16
24	Polymer Nanocomposites for Electro-Optics: Perspectives on Processing Technologies, Material Characterization, and Future Application. Advances in Polymer Science, 2010, , 221-282.	0.8	15
25	Color-tunable carbon dots via control the degree of self-assembly in solution at different concentration. Journal of Luminescence, 2019, 212, 69-75.	3.1	14
26	Au Catalyst Decorated Silica Spheres: Synthesis and High-Performance in 4-Nitrophenol Reduction. Journal of Nanoscience and Nanotechnology, 2016, 16, 5966-5974.	0.9	13
27	Mn-derived Cs₄PbX₆ nanocrystals with stable and tunable wide luminescence for white light-emitting diodes. Journal of Materials Chemistry C, 2022, 10, 3886-3893.	5.5	13
28	Formation and stability of manganese-doped ZnS quantum dot monolayers determined by QCM-D and streaming potential measurements. Journal of Colloid and Interface Science, 2017, 503, 186-197.	9.4	12
29	Low toxic and highly luminescent CdSe/Cd x Zn1â^'x S quantum dots with thin organic SiO2 coating for application in cell imaging. Journal of Nanoparticle Research, 2016, 18, 1.	1.9	11
30	Luminescent ZnSe:Mn/ZnS@PMMA nanocomposites with improved refractive index and transparency. Journal of Luminescence, 2018, 203, 655-662.	3.1	9
31	Hierarchical FeCo/C@Ni(OH)2 heterostructures for enhanced oxygen evolution activity. Electrochimica Acta, 2021, 395, 139194.	5.2	8
32	Synthesis and Compositionâ€Dependent Visible Photocatalysis of Ag/AgBr Necklaceâ€Like Heterostructures. ChemPlusChem, 2015, 80, 865-870.	2.8	7
33	Self-assembly and photoluminescence evolution of hydrophilic and hydrophobic quantum dots in solâ€“gel processes. Materials Research Bulletin, 2015, 70, 385-391.	5.2	7
34	Flexible silica films encapsulating hydrophilic CdTe quantum dots for application in white light emitting diodes. Journal of Luminescence, 2017, 181, 63-70.	3.1	7
35	Microwave-Assisted Synthesis of Hybrid Polymer Materials and Composites. Advances in Polymer Science, 2014, , 241-294.	0.8	5
36	Preparation and characteristics of molecularly homogeneous Ag/AgCl nano-heterostructures via a two-step synthesis. RSC Advances, 2015, 5, 17210-17215.	3.6	5

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37	Morphology variation of nanofibers from controlling matter diffusion in calcination processes. Materials Chemistry and Physics, 2017, 186, 312-316.	4.0	5
38	Hydrophobic CdSe and CdTe quantum dots: shell coating, shape control, and self-assembly. RSC Advances, 2016, 6, 25656-25661.	3.6	4
39	Effect of Cd precursors on luminescence of CdTe quantum dots and their luminescent temperature action. Journal of Luminescence, 2019, 211, 394-400.	3.1	4
40	Thermo-Optical Switching Effect Based on a Tapered Optical Fiber and Higher Alkanes Doped with ZnS:Mn. Materials, 2020, 13, 5044.	2.9	4
41	Microwave-assisted heating versus conventional heating in solvothermal and non-solvothermal synthesis of photocatalytic active ZnSeÂ·0.5N 2 H 4 and ZnSe:MnÂ·0.5N 2 H 4 anisotropic colloidal quasi-two-dimensional hybrid nanoplates. Chemical Engineering and Processing: Process Intensification, 2017, 122, 346-356.	3.6	4
42	Synthesis of Polymethacrylates with Carbazole and Benzofuran Pendant Groups for Photovoltaic Applications. Macromolecular Symposia, 2008, 268, 48-52.	0.7	3
43	Synthesis of SiO₂@AgCl and SiO₂@Ag₃PO₄ Nanocomposites via Replacing Reaction <I>In Situ</I> Towards Enhanced Photocatalysis. Journal of Nanoscience and Nanotechnology, 2016, 16, 9794-9799.	0.9	3
44	Crystal structure and luminescence of Cs-Pb-Sn-Br nanocrystals. Journal of Nanoparticle Research, 2020, 22, 1.	1.9	3
45	Photodegradation Process of Organic Dyes in the Presence of a Manganese-Doped Zinc Sulfide Nanowire Photocatalyst. Materials, 2021, 14, 5840.	2.9	3
46	Development of Carbazole and Bipyridine Copolymers as Novel Photovoltaic Materials. Macromolecular Symposia, 2008, 268, 110-114.	0.7	2
47	Morphology Adjustment of Pure and Doped g-C3N4 by Mercapto Group-Induced Assembly Towards Enhanced Photocatalysis. Nanoscience and Nanotechnology Letters, 2019, 11, 804-812.	0.4	2
48	SiO 2 monomer-triggered self-assembly of hybrid CdTe quantum dots. Chemical Engineering and Processing: Process Intensification, 2017, 122, 357-364.	3.6	1
49	Modification of Higher Alkanes by Nanoparticles to Control Light Propagation in Tapered Fibers. Micromachines, 2020, 11, 1006.	2.9	1
50	Microwave-assisted preparation of ZnS and ZnSe nanocrystals with different morphologies for photodegradation process of organic dyes. , 0, , .		0