

Susanta Bera

List of Publications by Year in descending order

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papers

924
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516561

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454834

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43
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1295
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#	ARTICLE	IF	CITATIONS
1	Solâ€“Gel-Based Titaniaâ€“Silica Thin Film Overlay for Long Period Fiber Grating-Based Biosensors. <i>Analytical Chemistry</i> , 2015, 87, 12024-12031.	3.2	102
2	Polyaniline hybridized surface defective ZnO nanorods with long-term stable photoelectrochemical activity. <i>Applied Surface Science</i> , 2016, 383, 165-176.	3.1	84
3	Influence of Al doping on microstructural, optical and photocatalytic properties of solâ€“gel based nanostructured zinc oxide films on glass. <i>RSC Advances</i> , 2014, 4, 11552-11563.	1.7	77
4	Synthesis of highly dispersed Pt nanoparticles into carbon supports by fluidized bed reactor atomic layer deposition to boost PEMFC performance. <i>NPG Asia Materials</i> , 2020, 12, .	3.8	60
5	Synthesis, characterization and cytotoxicity of europium incorporated ZnOâ€“graphene nanocomposites on human MCF7 breast cancer cells. <i>RSC Advances</i> , 2014, 4, 37479-37490.	1.7	49
6	Hierarchically structured ZnO-graphene hollow microspheres towards effective reusable adsorbent for organic pollutant via photodegradation process. <i>Journal of Alloys and Compounds</i> , 2016, 669, 177-186.	2.8	49
7	Polyaniline coated graphene hybridized SnO ₂ nanocomposite: Low temperature solution synthesis, structural property and room temperature ammonia gas sensing. <i>Journal of Alloys and Compounds</i> , 2018, 744, 260-270.	2.8	49
8	Synthesis, characterization and antibacterial activity of Ag incorporated ZnOâ€“graphene nanocomposites. <i>RSC Advances</i> , 2016, 6, 88751-88761.	1.7	47
9	Controlled Synthesis of Vertically Aligned SnO ₂ Nanograss-Structured Thin Films for SnO ₂ /BiVO ₄ Coreâ€“Shell Heterostructures with Highly Enhanced Photoelectrochemical Properties. <i>Chemistry of Materials</i> , 2018, 30, 8501-8509.	3.2	40
10	Soft chemical synthesis, characterization and interaction of ZnO graphene nanocomposite with bovine serum albumin protein. <i>Journal of Molecular Liquids</i> , 2017, 237, 113-119.	2.3	24
11	Influence of Surface Defects and Size on Photochemical Properties of SnO ₂ Nanoparticles. <i>Materials</i> , 2018, 11, 904.	1.3	24
12	Effect of bovine serum albumin immobilized Auâ€“ZnOâ€“graphene nanocomposite on human ovarian cancer cell. <i>Journal of Alloys and Compounds</i> , 2018, 734, 66-74.	2.8	22
13	Hierarchical Nanoporous BiVO ₄ Photoanodes with High Charge Separation and Transport Efficiency for Water Oxidation. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 14291-14301.	4.0	22
14	Atomic layer deposition enabled PtNi alloy catalysts for accelerated fuel-cell oxygen reduction activity and stability. <i>Chemical Engineering Journal</i> , 2022, 442, 136123.	6.6	22
15	Low temperature synthesis of graphene hybridized surface defective hierarchical coreâ€“shell structured ZnO hollow microspheres with long-term stable and enhanced photoelectrochemical activity. <i>RSC Advances</i> , 2016, 6, 36058-36068.	1.7	20
16	Uniform and Sizeâ€“Controlled Synthesis of Pt Nanoparticle Catalyst by Fluidized Bed Reactor Atomic Layer Deposition for PEMFCs. <i>Advanced Materials Interfaces</i> , 2019, 6, 1901210.	1.9	17
17	ZnOâ€“grapheneâ€“polyaniline nanoflowers: solution synthesis, formation mechanism and electrochemical activity. <i>RSC Advances</i> , 2016, 6, 40854-40857.	1.7	16
18	Synthesis, characterization and cytotoxicity of polyethylene glycol coupled zinc oxideâ€“chemically converted graphene nanocomposite on human OAW42 ovarian cancer cells. <i>Polymers for Advanced Technologies</i> , 2016, 27, 436-443.	1.6	16

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19	Atomic Layer Deposition Seeded Growth of Rutile SnO ₂ Nanowires on Versatile Conducting Substrates. ACS Applied Materials & Interfaces, 2020, 12, 48486-48494.	4.0	16
20	Sol-gel based simonkolleite nanopetals with SnO ₂ nanoparticles in graphite-like amorphous carbon as an efficient and reusable photocatalyst. RSC Advances, 2015, 5, 75062-75074.	1.7	15
21	Controllable size and crystallinity of Ru nanoparticles on a carbon support synthesized by fluidized bed reactor-atomic layer deposition for enhanced hydrogen oxidation activity. Journal of Materials Chemistry A, 2021, 9, 17223-17230.	5.2	14
22	In Situ Engineering of a Metal Oxide Protective Layer into Pt/Carbon Fuel-Cell Catalysts by Atomic Layer Deposition. Chemistry of Materials, 2022, 34, 5949-5959.	3.2	14
23	Hierarchically Structured Macro with Nested Mesoporous Zinc Indium Oxide Conducting Film. ACS Applied Materials & Interfaces, 2017, 9, 4420-4424.	4.0	13
24	Optimization of bending durability of Ti-ZnO thin films on flexible glass substrates with highly enhanced optoelectronic characteristics by atomic layer deposition. Japanese Journal of Applied Physics, 2019, 58, 075501.	0.8	12
25	Dependence of precursor composition on patterning and morphology of sol-gel soft lithography based zinc zirconium oxide thin films. Applied Surface Science, 2013, 273, 39-48.	3.1	11
26	Fabrication, structural evaluation, optical and photoelectrochemical properties of soft lithography based 1D/2D surface patterned indium titanium oxide sol-gel thin film. Surface and Coatings Technology, 2017, 328, 410-419.	2.2	11
27	Enhancing Water Oxidation Activity by Tuning Two-Dimensional Architectures and Compositions on CoMo Hydr(oxy)oxide. Journal of Physical Chemistry C, 2020, 124, 16879-16887.	1.5	11
28	Development of a cost effective surface-patterned transparent conductive coating as top-contact of light emitting diodes. Journal of Applied Physics, 2014, 115, 193108.	1.1	10
29	Low-temperature surfactant-free synthesis of tin oxide-reduced graphene oxide nanocomposites and their textural property-dependent lithium storage characteristics. Journal of Sol-Gel Science and Technology, 2015, 76, 402-413.	1.1	9
30	Cobalt Incorporated Pyramidal Shaped Zn _{0.5} Fe _{0.5} O ₃ Nanoparticles from Poly-vinyl Alcohol Based Precursor. Advances in Nanoparticles, 2016, 05, 9-17.		
31	Effect of precursor sol pH on microstructural, optical and photocatalytic properties of vacuum annealed zinc tin oxide thin films on glass. Journal of Sol-Gel Science and Technology, 2013, 67, 8-17.	1.1	8
32	Zinc-indium-oxide sol-gel thin film surface patterning, morphology and photocatalytic activity. Surface Engineering, 2015, 31, 492-501.	1.1	8
33	Comparative study of the electrical characteristics of ALD ZnO thin films using H ₂ O and H ₂ O ₂ as the oxidants. Journal of the American Ceramic Society, 2019, 102, 5881-5889.	1.9	8
34	Label-free IgG/anti-IgG biosensing based on long period fiber gratings: a comprehensive feasibility study. , 2015, , .		4
35	Effect of the Film Thickness on the Work Function of Pt-Ru Bimetallic Alloy Films by Atomic Layer Deposition. Journal of the Korean Physical Society, 2019, 75, 1-4.	0.3	4
36	Green Synthesis of Hierarchically Structured Metal and Metal Oxide Nanomaterials. Advances in Science, Technology and Innovation, 2021, , 91-113.	0.2	3

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37	Atomic Layer Deposition: Uniform and Size-Controlled Synthesis of Pt Nanoparticle Catalyst by Fluidized Bed Reactor Atomic Layer Deposition for PEMFCs (Adv. Mater. Interfaces 21/2019). Advanced Materials Interfaces, 2019, 6, 1970133.	1.9	2
38	High refractive index and temperature sensitivity LPGs for high temperature operation. , 2013, , .		1
39	Indium Oxide Based Nanomaterials: Fabrication Strategies, Properties, Applications, Challenges and Future Prospect. , 0, , .		1
40	Graphene-Based Nanocomposites. , 2021, , 987-1012.		0
41	Graphene Nanocomposite Based Nanoproducts. , 2021, , 1-28.		0
42	Graphene-Based Nanocomposites. , 2020, , 1-26.		0
43	Graphene Nanocomposite-Based Nanoproducts. , 2022, , 373-400.		0