

# Susanta Bera

## List of Publications by Year in descending order

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43  
papers

924  
citations

516215

16  
h-index

454577

30  
g-index

43  
all docs

43  
docs citations

43  
times ranked

1295  
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Graphene Nanocomposite-Based Nanoproducts. , 2022, , 373-400.		0
3	In Situ Engineering of a Metal Oxide Protective Layer into Pt/Carbon Fuel-Cell Catalysts by Atomic Layer Deposition. <i>Chemistry of Materials</i> , 2022, 34, 5949-5959.	3.2	14
4	Graphene-Based Nanocomposites. , 2021, , 987-1012.		0
5	Graphene Nanocomposite Based Nanoproducts. , 2021, , 1-28.		0
6	Controllable size and crystallinity of Ru nanoparticles on a carbon support synthesized by fluidized bed reactor-atomic layer deposition for enhanced hydrogen oxidation activity. <i>Journal of Materials Chemistry A</i> , 2021, 9, 17223-17230.	5.2	14
7	Hierarchical Nanoporous BiVO <sub>4</sub> Photoanodes with High Charge Separation and Transport Efficiency for Water Oxidation. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 14291-14301.	4.0	22
8	Green Synthesis of Hierarchically Structured Metal and Metal Oxide Nanomaterials. <i>Advances in Science, Technology and Innovation</i> , 2021, , 91-113.	0.2	3
9	Atomic Layer Deposition Seeded Growth of Rutile SnO <sub>2</sub> Nanowires on Versatile Conducting Substrates. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 48486-48494.	4.0	16
10	Enhancing Water Oxidation Activity by Tuning Two-Dimensional Architectures and Compositions on CoMo Hydr(oxy)oxide. <i>Journal of Physical Chemistry C</i> , 2020, 124, 16879-16887.	1.5	11
11	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
12	Graphene-Based Nanocomposites. , 2020, , 1-26.		0
13	Effect of the Film Thickness on the Work Function of Pt-Ru Bimetallic Alloy Films by Atomic Layer Deposition. <i>Journal of the Korean Physical Society</i> , 2019, 75, 1-4.	0.3	4
14	Optimization of bending durability of Ti-ZnO thin films on flexible glass substrates with highly enhanced optoelectronic characteristics by atomic layer deposition. <i>Japanese Journal of Applied Physics</i> , 2019, 58, 075501.	0.8	12
15	Atomic Layer Deposition: Uniform and Size-Controlled Synthesis of Pt Nanoparticle Catalyst by Fluidized Bed Reactor Atomic Layer Deposition for PEMFCs ( <i>Adv. Mater. Interfaces</i> 21/2019). <i>Advanced Materials Interfaces</i> , 2019, 6, 1970133.	1.9	2
16	Uniform and Size-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	Comparative study of the electrical characteristics of ALD-ZnO thin films using H <sub>2</sub> O and H <sub>2</sub> O <sub>2</sub> as the oxidants. <i>Journal of the American Ceramic Society</i> , 2019, 102, 5881-5889.	1.9	8
18	Polyaniline coated graphene hybridized SnO <sub>2</sub> 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

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19	Effect of bovine serum albumin immobilized Au@ZnO-graphene nanocomposite on human ovarian cancer cell. Journal of Alloys and Compounds, 2018, 734, 66-74.	2.8	22
20	Controlled Synthesis of Vertically Aligned SnO <sub>2</sub> Nanograss-Structured Thin Films for SnO <sub>2</sub> /BiVO <sub>4</sub> Core-Shell Heterostructures with Highly Enhanced Photoelectrochemical Properties. Chemistry of Materials, 2018, 30, 8501-8509.	3.2	40
21	Influence of Surface Defects and Size on Photochemical Properties of SnO <sub>2</sub> Nanoparticles. Materials, 2018, 11, 904.	1.3	24
22	Hierarchically Structured Macro with Nested Mesoporous Zinc Indium Oxide Conducting Film. ACS Applied Materials & Interfaces, 2017, 9, 4420-4424.	4.0	13
23	Soft chemical synthesis, characterization and interaction of ZnO graphene nanocomposite with bovine serum albumin protein. Journal of Molecular Liquids, 2017, 237, 113-119.	2.3	24
24	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
25	Low temperature synthesis of graphene hybridized surface defective hierarchical core-shell structured ZnO hollow microspheres with long-term stable and enhanced photoelectrochemical activity. RSC Advances, 2016, 6, 36058-36068.	1.7	20
26	ZnO-graphene-polyaniline nanoflowers: solution synthesis, formation mechanism and electrochemical activity. RSC Advances, 2016, 6, 40854-40857.	1.7	16
27	Polyaniline hybridized surface defective ZnO nanorods with long-term stable photoelectrochemical activity. Applied Surface Science, 2016, 383, 165-176.	3.1	84
28	Synthesis, characterization and antibacterial activity of Ag incorporated ZnO-graphene nanocomposites. RSC Advances, 2016, 6, 88751-88761.	1.7	47
29	Hierarchically structured ZnO-graphene hollow microspheres towards effective reusable adsorbent for organic pollutant via photodegradation process. Journal of Alloys and Compounds, 2016, 669, 177-186.	2.8	49
30	Synthesis, characterization and cytotoxicity of polyethylene glycol coupled zinc oxide-chemically converted graphene nanocomposite on human OAW42 ovarian cancer cells. Polymers for Advanced Technologies, 2016, 27, 436-443.	1.6	16
31	Cobalt Incorporated Pyramidal Shaped Fe <sub>2</sub> O <sub>3</sub> Nanoparticles from Poly-vinyl Alcohol Based Precursor. Advances in Nanoparticles, 2016, 05, 9-17.		
32	Sol-Gel-Based Titania-Silica Thin Film Overlay for Long Period Fiber Grating-Based Biosensors. Analytical Chemistry, 2015, 87, 12024-12031.	3.2	102
33	Zinc-indium-oxide sol-gel thin film surface patterning, morphology and photocatalytic activity. Surface Engineering, 2015, 31, 492-501.	1.1	8
34	Label-free IgG/anti-IgG biosensing based on long period fiber gratings: a comprehensive feasibility study. , 2015, , .		4
35	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
36	Sol-gel based simonkolleite nanopetals with SnO <sub>2</sub> nanoparticles in graphite-like amorphous carbon as an efficient and reusable photocatalyst. RSC Advances, 2015, 5, 75062-75074.	1.7	15

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37	Influence of Al doping on microstructural, optical and photocatalytic properties of sol-gel based nanostructured zinc oxide films on glass. RSC Advances, 2014, 4, 11552-11563.	1.7	77
38	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
39	Synthesis, characterization and cytotoxicity of europium incorporated ZnO-graphene nanocomposites on human MCF7 breast cancer cells. RSC Advances, 2014, 4, 37479-37490.	1.7	49
40	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
41	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
42	High refractive index and temperature sensitivity LPGs for high temperature operation. , 2013, , .		1
43	Indium Oxide Based Nanomaterials: Fabrication Strategies, Properties, Applications, Challenges and Future Prospect. , 0, , .		1