

Gautam Gupta

List of Publications by Year in descending order

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39
papers

5,030
citations

331670

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39
all docs

39
docs citations

39
times ranked

9565
citing authors

#	ARTICLE	IF	CITATIONS
1	Adapting L-PBF process for fine powders: a case study in 420 stainless steel. Materials and Manufacturing Processes, 2022, 37, 1320-1331.	4.7	11
2	Long-term stabilization of DNA at room temperature using a one-step microwave assisted process. Emergent Materials, 2022, 5, 307-314.	5.7	5
3	Long term storage of miRNA at room and elevated temperatures in a silica sol-gel matrix. RSC Advances, 2021, 11, 31505-31510.	3.6	2
4	Stabilization and solidification of brine water containing selenium, chromium, copper, and mercury utilizing a microwave enabled sol-gel process. Environmental Science: Water Research and Technology, 2021, 7, 904-912.	2.4	3
5	Bio-CaRGOS: capture and release gels for optimized storage of hemoglobin. RSC Advances, 2021, 11, 13034-13039.	3.6	4
6	Effects of layer thickness in laser-powder bed fusion of 420 stainless steel. Rapid Prototyping Journal, 2020, 26, 1197-1208.	3.2	23
7	Graphite Intercalation Compounds Derived by Green Chemistry as Oxygen Reduction Reaction Catalysts. ACS Applied Materials & Interfaces, 2020, 12, 42678-42685.	8.0	18
8	Fabrication of flexible perovskite solar cells via rapid thermal annealing. Materials Letters, 2020, 276, 128215.	2.6	12
9	Effect of Stacking Interactions on the Translation of Structurally Related Bis(thiosemicarbazonato)nickel(II) HER Catalysts to Modified Electrode Surfaces. Inorganic Chemistry, 2019, 58, 12025-12039.	4.0	6
10	Nitrogen-Doped Graphene Oxide Electrocatalysts for the Oxygen Reduction Reaction. ACS Applied Nano Materials, 2019, 2, 1675-1682.	5.0	69
11	Effects of Nb and Mo on the microstructure and properties of 420 stainless steel processed by laser-powder bed fusion. Additive Manufacturing, 2019, 28, 682-691.	3.0	29
12	Investigation of the photocorrosion of n-GaP photoanodes in acid with in situ UV-Vis spectroscopy. Journal of Materials Chemistry A, 2019, 7, 25377-25388.	10.3	13
13	Highly Efficient and Durable Electrocatalyst Based on Nanowires of Cobalt Sulfide for Overall Water Splitting. ChemNanoMat, 2018, 4, 1240-1246.	2.8	28
14	Effects of powder characteristics and processing conditions on the corrosion performance of 17-4 PH stainless steel fabricated by laser-powder bed fusion. Progress in Additive Manufacturing, 2018, 3, 39-49.	4.8	35
15	Single layer graphene protective gas barrier for copper photocathodes. Applied Physics Letters, 2017, 110, .	3.3	20
16	Effect of Precursor Solution Aging on the Crystallinity and Photovoltaic Performance of Perovskite Solar Cells. Advanced Energy Materials, 2017, 7, 1602159.	19.5	130
17	High-Performance Flexible Supercapacitors obtained via Recycled Jute: Bio-Waste to Energy Storage Approach. Scientific Reports, 2017, 7, 1174.	3.3	122
18	Active bialkali photocathodes on free-standing graphene substrates. Npj 2D Materials and Applications, 2017, 1, .	7.9	24

#	ARTICLE	IF	CITATIONS
19	MoS ₂ Decorated Carbon Nanofibers as Efficient and Durable Electrocatalyst for Hydrogen Evolution Reaction. Journal of Carbon Research, 2017, 3, 33.	2.7	45
20	Valence-band electronic structure evolution of graphene oxide upon thermal annealing for optoelectronics. Physica Status Solidi (A) Applications and Materials Science, 2016, 213, 2380-2386.	1.8	13
21	Polaron Stabilization by Cooperative Lattice Distortion and Cation Rotations in Hybrid Perovskite Materials. Nano Letters, 2016, 16, 3809-3816.	9.1	245
22	Highly stable hollow bifunctional cobalt sulfides for flexible supercapacitors and hydrogen evolution. Journal of Materials Chemistry A, 2016, 4, 9014-9018.	10.3	85
23	Optoelectronic properties and photo-physics of large grain hybrid perovskites. , 2016, , .		0
24	Charge transfer in crystalline germanium/monolayer MoS ₂ heterostructures prepared by chemical vapor deposition. Nanoscale, 2016, 8, 18675-18681.	5.6	25
25	Critical role of intercalated water for electrocatalytically active nitrogen-doped graphitic systems. Science Advances, 2016, 2, e1501178.	10.3	36
26	Efficient hydrogen evolution in transition metal dichalcogenides via a simple one-step hydrazine reaction. Nature Communications, 2016, 7, 11857.	12.8	179
27	Light-activated photocurrent degradation and self-healing in perovskite solar cells. Nature Communications, 2016, 7, 11574.	12.8	584
28	High-energy density nanofiber-based solid-state supercapacitors. Journal of Materials Chemistry A, 2016, 4, 160-166.	10.3	29
29	Direct Imaging of Charge Transport in Progressively Reduced Graphene Oxide Using Electrostatic Force Microscopy. ACS Nano, 2015, 9, 2981-2988.	14.6	29
30	High-efficiency solution-processed perovskite solar cells with millimeter-scale grains. Science, 2015, 347, 522-525.	12.6	2,978
31	Optimizing Composition and Morphology for Large-Grain Perovskite Solar Cells via Chemical Control. Chemistry of Materials, 2015, 27, 5570-5576.	6.7	82
32	Handbook of Nanomaterials Properties: Siliceous Nanobiomaterials. , 2014, , 963-993.		1
33	Reduced Graphene Oxide Thin Films as Ultrabarrriers for Organic Electronics. Advanced Energy Materials, 2014, 4, 1300986.	19.5	59
34	Flexible memory devices with tunable electrical bistability via controlled energetics in donor-acceptor conjugated polymers. Journal of Materials Chemistry C, 2014, 2, 4374-4378.	5.5	34
35	Stable and Fluid Multilayer Phospholipid-Silica Thin Films: Mimicking Active Multi-lamellar Biological Assemblies. ACS Nano, 2013, 7, 5300-5307.	14.6	13
36	Carbon Nanomaterials in Silica Aerogel Matrices. Materials Research Society Symposia Proceedings, 2010, 1258, 1.	0.1	2

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37	Stable and Responsive Fluorescent Carbon Nanotube Silica Gels. Materials Research Society Symposia Proceedings, 2010, 1258, 1.	0.1	1
38	CVD for the Facile Synthesis of Hybrid Nanobiomaterials Integrating Functional Supramolecular Assemblies. Langmuir, 2009, 25, 13322-13327.	3.5	28
39	Robust hybrid thin films that incorporate lamellar phospholipid bilayer assemblies and transmembrane proteins. Biointerphases, 2006, 1, 6-10.	1.6	8