

Gautam Gupta

List of Publications by Year in descending order

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39
papers

5,030
citations

331670

21
h-index

330143

37
g-index

39
all docs

39
docs citations

39
times ranked

9565
citing authors

#	ARTICLE	IF	CITATIONS
1	High-efficiency solution-processed perovskite solar cells with millimeter-scale grains. <i>Science</i> , 2015, 347, 522-525.	12.6	2,978
2	Light-activated photocurrent degradation and self-healing in perovskite solar cells. <i>Nature Communications</i> , 2016, 7, 11574.	12.8	584
3	Polaron Stabilization by Cooperative Lattice Distortion and Cation Rotations in Hybrid Perovskite Materials. <i>Nano Letters</i> , 2016, 16, 3809-3816.	9.1	245
4	Efficient hydrogen evolution in transition metal dichalcogenides via a simple one-step hydrazine reaction. <i>Nature Communications</i> , 2016, 7, 11857.	12.8	179
5	Effect of Precursor Solution Aging on the Crystallinity and Photovoltaic Performance of Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2017, 7, 1602159.	19.5	130
6	High-Performance Flexible Supercapacitors obtained via Recycled Jute: Bio-Waste to Energy Storage Approach. <i>Scientific Reports</i> , 2017, 7, 1174.	3.3	122
7	Highly stable hollow bifunctional cobalt sulfides for flexible supercapacitors and hydrogen evolution. <i>Journal of Materials Chemistry A</i> , 2016, 4, 9014-9018.	10.3	85
8	Optimizing Composition and Morphology for Large-Grain Perovskite Solar Cells via Chemical Control. <i>Chemistry of Materials</i> , 2015, 27, 5570-5576.	6.7	82
9	Nitrogen-Doped Graphene Oxide Electrocatalysts for the Oxygen Reduction Reaction. <i>ACS Applied Nano Materials</i> , 2019, 2, 1675-1682.	5.0	69
10	Reduced Graphene Oxide Thin Films as Ultrabarrriers for Organic Electronics. <i>Advanced Energy Materials</i> , 2014, 4, 1300986.	19.5	59
11	MoS ₂ Decorated Carbon Nanofibers as Efficient and Durable Electrocatalyst for Hydrogen Evolution Reaction. <i>Journal of Carbon Research</i> , 2017, 3, 33.	2.7	45
12	Critical role of intercalated water for electrocatalytically active nitrogen-doped graphitic systems. <i>Science Advances</i> , 2016, 2, e1501178.	10.3	36
13	Effects of powder characteristics and processing conditions on the corrosion performance of 17-4 PH stainless steel fabricated by laser-powder bed fusion. <i>Progress in Additive Manufacturing</i> , 2018, 3, 39-49.	4.8	35
14	Flexible memory devices with tunable electrical bistability via controlled energetics in donor-acceptor conjugated polymers. <i>Journal of Materials Chemistry C</i> , 2014, 2, 4374-4378.	5.5	34
15	Direct Imaging of Charge Transport in Progressively Reduced Graphene Oxide Using Electrostatic Force Microscopy. <i>ACS Nano</i> , 2015, 9, 2981-2988.	14.6	29
16	High-energy density nanofiber-based solid-state supercapacitors. <i>Journal of Materials Chemistry A</i> , 2016, 4, 160-166.	10.3	29
17	Effects of Nb and Mo on the microstructure and properties of 420 stainless steel processed by laser-powder bed fusion. <i>Additive Manufacturing</i> , 2019, 28, 682-691.	3.0	29
18	CVD for the Facile Synthesis of Hybrid Nanobiomaterials Integrating Functional Supramolecular Assemblies. <i>Langmuir</i> , 2009, 25, 13322-13327.	3.5	28

#	ARTICLE	IF	CITATIONS
19	Highly Efficient and Durable Electrocatalyst Based on Nanowires of Cobalt Sulfide for Overall Water Splitting. <i>ChemNanoMat</i> , 2018, 4, 1240-1246.	2.8	28
20	Charge transfer in crystalline germanium/monolayer MoS ₂ heterostructures prepared by chemical vapor deposition. <i>Nanoscale</i> , 2016, 8, 18675-18681.	5.6	25
21	Active bialkali photocathodes on free-standing graphene substrates. <i>Npj 2D Materials and Applications</i> , 2017, 1, .	7.9	24
22	Effects of layer thickness in laser-powder bed fusion of 420 stainless steel. <i>Rapid Prototyping Journal</i> , 2020, 26, 1197-1208.	3.2	23
23	Single layer graphene protective gas barrier for copper photocathodes. <i>Applied Physics Letters</i> , 2017, 110, .	3.3	20
24	Graphite Intercalation Compounds Derived by Green Chemistry as Oxygen Reduction Reaction Catalysts. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 42678-42685.	8.0	18
25	Stable and Fluid Multilayer Phospholipid-Silica Thin Films: Mimicking Active Multi-lamellar Biological Assemblies. <i>ACS Nano</i> , 2013, 7, 5300-5307.	14.6	13
26	Valence-band electronic structure evolution of graphene oxide upon thermal annealing for optoelectronics. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2016, 213, 2380-2386.	1.8	13
27	Investigation of the photocorrosion of n-GaP photoanodes in acid with in situ UV-Vis spectroscopy. <i>Journal of Materials Chemistry A</i> , 2019, 7, 25377-25388.	10.3	13
28	Fabrication of flexible perovskite solar cells via rapid thermal annealing. <i>Materials Letters</i> , 2020, 276, 128215.	2.6	12
29	Adapting L-PBF process for fine powders: a case study in 420 stainless steel. <i>Materials and Manufacturing Processes</i> , 2022, 37, 1320-1331.	4.7	11
30	Robust hybrid thin films that incorporate lamellar phospholipid bilayer assemblies and transmembrane proteins. <i>Biointerphases</i> , 2006, 1, 6-10.	1.6	8
31	Effect of Stacking Interactions on the Translation of Structurally Related Bis(thiosemicarbazone)nickel(II) HER Catalysts to Modified Electrode Surfaces. <i>Inorganic Chemistry</i> , 2019, 58, 12025-12039.	4.0	6
32	Long-term stabilization of DNA at room temperature using a one-step microwave assisted process. <i>Emergent Materials</i> , 2022, 5, 307-314.	5.7	5
33	Bio-CaRGOS: capture and release gels for optimized storage of hemoglobin. <i>RSC Advances</i> , 2021, 11, 13034-13039.	3.6	4
34	Stabilization and solidification of brine water containing selenium, chromium, copper, and mercury utilizing a microwave enabled sol-gel process. <i>Environmental Science: Water Research and Technology</i> , 2021, 7, 904-912.	2.4	3
35	Carbon Nanomaterials in Silica Aerogel Matrices. <i>Materials Research Society Symposia Proceedings</i> , 2010, 1258, 1.	0.1	2
36	Long term storage of miRNA at room and elevated temperatures in a silica sol-gel matrix. <i>RSC Advances</i> , 2021, 11, 31505-31510.	3.6	2

#	ARTICLE	IF	CITATIONS
37	Stable and Responsive Fluorescent Carbon Nanotube Silica Gels. Materials Research Society Symposia Proceedings, 2010, 1258, 1.	0.1	1
38	Handbook of Nanomaterials Properties: Siliceous Nanobiomaterials. , 2014, , 963-993.		1
39	Optoelectronic properties and photo-physics of large grain hybrid perovskites. , 2016, , .		0