

Fabian SchÄ¼tt

List of Publications by Year in descending order

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Version: 2024-02-01

37
papers

1,200
citations

471509

17
h-index

377865

34
g-index

38
all docs

38
docs citations

38
times ranked

2000
citing authors

#	ARTICLE	IF	CITATIONS
1	Fundamentals and scopes of doped carbon nanotubes towards energy and biosensing applications. <i>Materials Today Energy</i> , 2018, 9, 154-186.	4.7	167
2	Visible-light photocatalysis by carbon-nano-onion-functionalized ZnO tetrapods: degradation of 2,4-dinitrophenol and a plant-model-based ecological assessment. <i>NPG Asia Materials</i> , 2019, 11, .	7.9	130
3	Single and Networked ZnO@CNT Hybrid Tetrapods for Selective Room-Temperature High-Performance Ammonia Sensors. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 23107-23118.	8.0	125
4	Hierarchical self-entangled carbon nanotube tube networks. <i>Nature Communications</i> , 2017, 8, 1215.	12.8	120
5	Porous ceramics based on hybrid inorganic tetrapodal networks for efficient photocatalysis and water purification. <i>Ceramics International</i> , 2017, 43, 14915-14922.	4.8	78
6	Sensing performances of pure and hybridized carbon nanotubes-ZnO nanowire networks: A detailed study. <i>Scientific Reports</i> , 2017, 7, 14715.	3.3	56
7	Highly selective and ultra-low power consumption metal oxide based hydrogen gas sensor employing graphene oxide as molecular sieve. <i>Sensors and Actuators B: Chemical</i> , 2020, 320, 128363.	7.8	56
8	Conversionless efficient and broadband laser light diffusers for high brightness illumination applications. <i>Nature Communications</i> , 2020, 11, 1437.	12.8	52
9	Buckminsterfullerene hybridized zinc oxide tetrapods: defects and charge transfer induced optical and electrical response. <i>Nanoscale</i> , 2018, 10, 10050-10062.	5.6	44
10	Tuning doping and surface functionalization of columnar oxide films for volatile organic compound sensing: experiments and theory. <i>Journal of Materials Chemistry A</i> , 2018, 6, 23669-23682.	10.3	36
11	Schottky Diode Based on a Single Carbon@Nanotube@ZnO Hybrid Tetrapod for Selective Sensing Applications. <i>Advanced Materials Interfaces</i> , 2017, 4, 1700507.	3.7	32
12	Bioactive Carbon-Based Hybrid 3D Scaffolds for Osteoblast Growth. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 43874-43886.	8.0	32
13	Wet-Chemical Assembly of 2D Nanomaterials into Lightweight, Microtube-Shaped, and Macroscopic 3D Networks. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 44652-44663.	8.0	30
14	Microengineered Hollow Graphene Tube Systems Generate Conductive Hydrogels with Extremely Low Filler Concentration. <i>Nano Letters</i> , 2021, 21, 3690-3697.	9.1	29
15	Self-organized and self-propelled aero-GaN with dual hydrophilic-hydrophobic behaviour. <i>Nano Energy</i> , 2019, 56, 759-769.	16.0	26
16	Biomimetic Carbon Fiber Systems Engineering: A Modular Design Strategy To Generate Biofunctional Composites from Graphene and Carbon Nanofibers. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 5325-5335.	8.0	24
17	The effect of morphology and functionalization on UV detection properties of ZnO networked tetrapods and single nanowires. <i>Vacuum</i> , 2019, 166, 393-398.	3.5	22
18	Thermal and electrical transport properties in multi-walled carbon nanotube-coated ZnO tetrapods and self-entangled multi-walled carbon nanotube tubes. <i>Carbon</i> , 2019, 144, 423-432.	10.3	17

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19	Aero-Ga ₂ O ₃ Nanomaterial Electromagnetically Transparent from Microwaves to Terahertz for Internet of Things Applications. <i>Nanomaterials</i> , 2020, 10, 1047.	4.1	12
20	Wetting Properties of Graphene Aerogels. <i>Scientific Reports</i> , 2020, 10, 1916.	3.3	12
21	Macroscopic Silicone Microchannel Matrix for Tailored Drug Release and Localized Glioblastoma Therapy. <i>ACS Biomaterials Science and Engineering</i> , 2020, 6, 3388-3397.	5.2	12
22	Electrically powered repeatable air explosions using microtubular graphene assemblies. <i>Materials Today</i> , 2021, 48, 7-17.	14.2	12
23	Systematically Designed Periodic Electrophoretic Deposition for Decorating 3D Carbon-Based Scaffolds with Bioactive Nanoparticles. <i>ACS Biomaterials Science and Engineering</i> , 2019, 5, 4393-4404.	5.2	10
24	Perfect polymer interlocking by spherical particles: capillary force shapes hierarchical composite undercuts. <i>Nanoscale Horizons</i> , 2019, 4, 947-952.	8.0	10
25	Thermoresponsive Hydrogels with Improved Actuation Function by Interconnected Microchannels. <i>Advanced Intelligent Systems</i> , 2022, 4, 2100081.	6.1	10
26	Fabrication of ZnO Nanobrushes by H ₂ â€C ₂ H ₂ Plasma Etching for H ₂ Sensing Applications. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 61758-61769.	8.0	9
27	Hierarchical Aerographite 3D flexible networks hybridized by InP micro/nanostructures for strain sensor applications. <i>Scientific Reports</i> , 2018, 8, 13880.	3.3	7
28	Fabrication and Modelling of a Reservoir-Based Drug Delivery System for Customizable Release. <i>Pharmaceutics</i> , 2022, 14, 777.	4.5	6
29	Localized Drug Delivery Systems in Highâ€Grade Glioma Therapyâ€From Construction to Application. <i>Advanced Therapeutics</i> , 2022, 5, .	3.2	5
30	Glial cell responses on tetrapod-shaped graphene oxide and reduced graphene oxide 3D scaffolds in brain in vitro and ex vivo models of indirect contact. <i>Biomedical Materials (Bristol)</i> , 2021, 16, 015008.	3.3	4
31	Temperature-Dependent Vapor Infiltration of Sulfur into Highly Porous Hierarchical Three-Dimensional Conductive Carbon Networks for Lithium Ion Battery Applications. <i>ACS Omega</i> , 2020, 5, 28196-28203.	3.5	3
32	Self-Propelled Aero-GaN Based Liquid Marbles Exhibiting Pulsed Rotation on the Water Surface. <i>Materials</i> , 2021, 14, 5086.	2.9	3
33	Graphene Oxide Framework Structures and Coatings: Impact on Cell Adhesion and Pre-Vascularization Processes for Bone Grafts. <i>International Journal of Molecular Sciences</i> , 2022, 23, 3379.	4.1	3
34	Tuneable conductivity at extreme electric fields in ZnO tetrapod-silicone composites for high-voltage power cable insulation. <i>Scientific Reports</i> , 2022, 12, 6035.	3.3	3
35	Evaporation kinetics in highly porous tetrapodal zinc oxide networks studied using in situ SRâ€CT. <i>Scientific Reports</i> , 2021, 11, 20272.	3.3	2
36	Double Hierarchical 3D Carbon Nanotube Network with Tailored Structure as a Lithium Sulfur Cathode. , 2021, , .		0

#	ARTICLE	IF	CITATIONS
37	Novel Tailored 3D Carbon Nanotube Cathodes for Effective Trapping of Polysulfides in Lithium Sulfur Batteries. ECS Meeting Abstracts, 2019, , .	0.0	0