Fabian Schütt

List of Publications by Year
in descending order

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	Thermoresponsive Hydrogels with Improved Actuation Function by Interconnected Microchannels. Advanced Intelligent Systems, 2022, 4, 2100081.	6.1	10
2	Graphene Oxide Framework Structures and Coatings: Impact on Cell Adhesion and Pre-Vascularization Processes for Bone Grafts. International Journal of Molecular Sciences, 2022, 23, 3379.	4.1	3
3	Localized Drug Delivery Systems in High‐Grade Glioma Therapy—From Construction to Application. Advanced Therapeutics, 2022, 5, .	3.2	5
4	Fabrication and Modelling of a Reservoir-Based Drug Delivery System for Customizable Release. Pharmaceutics, 2022, 14, 777.	4.5	6
5	Tuneable conductivity at extreme electric fields in ZnO tetrapod-silicone composites for high-voltage power cable insulation. Scientific Reports, 2022, 12, 6035.	3.3	3
6	Microengineered Hollow Graphene Tube Systems Generate Conductive Hydrogels with Extremely Low Filler Concentration. Nano Letters, 2021, 21, 3690-3697.	9.1	29
7	Electrically powered repeatable air explosions using microtubular graphene assemblies. Materials Today, 2021, 48, 7-17.	14.2	12
8	Self-Propelled Aero-GaN Based Liquid Marbles Exhibiting Pulsed Rotation on the Water Surface. Materials, 2021, 14, 5086.	2.9	3
9	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. Biomedical Materials (Bristol), 2021, 16, 015008.	3.3	4
10	Double Hierarchical 3D Carbon Nanotube Network with Tailored Structure as a Lithium Sulfur Cathode. , 2021, , .		0
11	Evaporation kinetics in highly porous tetrapodal zinc oxide networks studied using in situ SRµCT. Scientific Reports, 2021, 11, 20272.	3.3	2
12	Fabrication of ZnO Nanobrushes by H_2–C_2H_2 Plasma Etching for H_2 Sensing Applications. ACS Applied Materials & Interfaces, 2021, 13, 61758-61769.	8.0	9
13	Temperature-Dependent Vapor Infiltration of Sulfur into Highly Porous Hierarchical Three-Dimensional Conductive Carbon Networks for Lithium Ion Battery Applications. ACS Omega, 2020, 5, 28196-28203.	3.5	3
14	Highly selective and ultra-low power consumption metal oxide based hydrogen gas sensor employing graphene oxide as molecular sieve. Sensors and Actuators B: Chemical, 2020, 320, 128363.	7.8	56
15	Aero-Ga2O3 Nanomaterial Electromagnetically Transparent from Microwaves to Terahertz for Internet of Things Applications. Nanomaterials, 2020, 10, 1047.	4.1	12
16	Conversionless efficient and broadband laser light diffusers for high brightness illumination applications. Nature Communications, 2020, 11, 1437.	12.8	52
17	Wetting Properties of Graphene Aerogels. Scientific Reports, 2020, 10, 1916.	3.3	12
18	Macroscopic Silicone Microchannel Matrix for Tailored Drug Release and Localized Glioblastoma Therapy. ACS Biomaterials Science and Engineering, 2020, 6, 3388-3397.	5.2	12

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19	Wet-Chemical Assembly of 2D Nanomaterials into Lightweight, Microtube-Shaped, and Macroscopic 3D Networks. ACS Applied Materials & Interfaces, 2019, 11, 44652-44663.	8.0	30
20	Systematically Designed Periodic Electrophoretic Deposition for Decorating 3D Carbon-Based Scaffolds with Bioactive Nanoparticles. ACS Biomaterials Science and Engineering, 2019, 5, 4393-4404.	5.2	10
21	Perfect polymer interlocking by spherical particles: capillary force shapes hierarchical composite undercuts. Nanoscale Horizons, 2019, 4, 947-952.	8.0	10
22	Visible-light photocatalysis by carbon-nano-onion-functionalized ZnO tetrapods: degradation of 2,4-dinitrophenol and a plant-model-based ecological assessment. NPG Asia Materials, 2019, 11, .	7.9	130
23	Thermal and electrical transport properties in multi-walled carbon nanotube-coated ZnO tetrapods and self-entangled multi-walled carbon nanotube tubes. Carbon, 2019, 144, 423-432.	10.3	17
24	Biomimetic Carbon Fiber Systems Engineering: A Modular Design Strategy To Generate Biofunctional Composites from Graphene and Carbon Nanofibers. ACS Applied Materials & Interfaces, 2019, 11, 5325-5335.	8.0	24
25	Self-organized and self-propelled aero-GaN with dual hydrophilic-hydrophobic behaviour. Nano Energy, 2019, 56, 759-769.	16.0	26
26	The effect of morphology and functionalization on UV detection properties of ZnO networked tetrapods and single nanowires. Vacuum, 2019, 166, 393-398.	3.5	22
27	Novel Tailored 3D Carbon Nanotube Cathodes for Effective Trapping of Polysulfides in Lithium Sulfur Batteries. ECS Meeting Abstracts, 2019, , .	0.0	0
28	Buckminsterfullerene hybridized zinc oxide tetrapods: defects and charge transfer induced optical and electrical response. Nanoscale, 2018, 10, 10050-10062.	5.6	44
29	Tuning doping and surface functionalization of columnar oxide films for volatile organic compound sensing: experiments and theory. Journal of Materials Chemistry A, 2018, 6, 23669-23682.	10.3	36
30	Bioactive Carbon-Based Hybrid 3D Scaffolds for Osteoblast Growth. ACS Applied Materials & Interfaces, 2018, 10, 43874-43886.	8.0	32
31	Hierarchical Aerographite 3D flexible networks hybridized by InP micro/nanostructures for strain sensor applications. Scientific Reports, 2018, 8, 13880.	3.3	7
32	Fundamentals and scopes of doped carbon nanotubes towards energy and biosensing applications. Materials Today Energy, 2018, 9, 154-186.	4.7	167
33	Hierarchical self-entangled carbon nanotube tube networks. Nature Communications, 2017, 8, 1215.	12.8	120
34	Schottky Diode Based on a Single Carbon–Nanotube–ZnO Hybrid Tetrapod for Selective Sensing Applications. Advanced Materials Interfaces, 2017, 4, 1700507.	3.7	32
35	Porous ceramics based on hybrid inorganic tetrapodal networks for efficient photocatalysis and water purification. Ceramics International, 2017, 43, 14915-14922.	4.8	78
36	Sensing performances of pure and hybridized carbon nanotubes-ZnO nanowire networks: A detailed study. Scientific Reports, 2017, 7, 14715.	3.3	56

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37	Single and Networked ZnOâ€"CNT Hybrid Tetrapods for Selective Room-Temperature High-Performance Ammonia Sensors. ACS Applied Materials & Interfaces, 2017, 9, 23107-23118.	8.0	125