

# Dmitri Golberg

## List of Publications by Year in descending order

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764  
papers

62,163  
citations

435

131  
h-index

1676

214  
g-index

804  
all docs

804  
docs citations

804  
times ranked

44191  
citing authors

#	ARTICLE	IF	CITATIONS
1	Vanadium-Containing Layered Materials as High-Performance Cathodes for Aqueous Zinc-Ion Batteries. <i>Advanced Materials Technologies</i> , 2022, 7, 2100505.	5.8	23
2	Hexagonal BN- and BNO-supported Au and Pt nanocatalysts in carbon monoxide oxidation and carbon dioxide hydrogenation reactions. <i>Applied Catalysis B: Environmental</i> , 2022, 303, 120891.	20.2	26
3	Borophene: Two-dimensional Boron Monolayer: Synthesis, Properties, and Potential Applications. <i>Chemical Reviews</i> , 2022, 122, 1000-1051.	47.7	106
4	Sonochemical Synthesis of Ga/ZnO Nanomaterials from a Liquid Metal for Photocatalytic Applications. <i>Advanced Sustainable Systems</i> , 2022, 6, 2100312.	5.3	5
5	Probing interfacial interactions and dynamics of polymers enclosed in boron nitride nanotubes. <i>Journal of Polymer Science</i> , 2022, 60, 233-243.	3.8	0
6	Optomechanical Properties of MoSe <sub>2</sub> Nanosheets as Revealed by <i>In Situ</i> Transmission Electron Microscopy. <i>Nano Letters</i> , 2022, 22, 673-679.	9.1	4
7	Efficient lithium-ion storage using a heterostructured porous carbon framework and its <i>in situ</i> transmission electron microscopy study. <i>Chemical Communications</i> , 2022, 58, 863-866.	4.1	42
8	Carbon-Integrated Vanadium Oxide Hydrate as a High-Performance Cathode Material for Aqueous Zinc-Ion Batteries. <i>ACS Applied Energy Materials</i> , 2022, 5, 4159-4169.	5.1	5
9	Back-Integration of Recovered Graphite from Waste-Batteries as Ultra-High Capacity and Stable Anode for Potassium-Ion Battery. <i>Batteries and Supercaps</i> , 2022, 5, .	4.7	8
10	Ultra-stable sodium ion storage of biomass porous carbon derived from sugarcane. <i>Chemical Engineering Journal</i> , 2022, 445, 136344.	12.7	56
11	Erosion Resistance of Iron-Boron Nitride Composite Plating to Molten Lead-Free Solder. <i>Materials Transactions</i> , 2022, , .	1.2	0
12	Delaminated V <sub>2</sub> C MXene Nanostructures Prepared via LiF Salt Etching for Electrochemical Applications. <i>ACS Applied Nano Materials</i> , 2022, 5, 12117-12125.	5.0	10
13	Self-templated fabrication of hierarchical hollow manganese-cobalt phosphide yolk-shell spheres for enhanced oxygen evolution reaction. <i>Chemical Engineering Journal</i> , 2021, 405, 126580.	12.7	160
14	Nacre-bionic nanocomposite membrane for efficient in-plane dissipation heat harvest under high temperature. <i>Journal of Materiomics</i> , 2021, 7, 219-225.	5.7	18
15	Hydrogen Storage in Carbon and Oxygen Co-Doped Porous Boron Nitrides. <i>Advanced Functional Materials</i> , 2021, 31, 2007381.	14.9	50
16	Na <sub>0.67</sub> Mn(1-x)/Fe <sub>x</sub> O <sub>2</sub> Compounds as High-Capacity Cathode Materials for Rechargeable Sodium-Ion Batteries. <i>ChemElectroChem</i> , 2021, 8, 508-516.	3.4	8
17	Exploring Aluminum-Ion Insertion into Magnesium-Doped Manjiroite (MnO <sub>2</sub> ) Nanorods in Aqueous Solution. <i>ChemElectroChem</i> , 2021, 8, 1048-1054.	3.4	9
18	The effect of Ti <sub>3</sub> AlC <sub>2</sub> MAX phase synthetic history on the structure and electrochemical properties of resultant Ti <sub>3</sub> C <sub>2</sub> MXenes. <i>Materials and Design</i> , 2021, 199, 109403.	7.0	42

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19	Mesoporous TiO <sub>2</sub> -based architectures as promising sensing materials towards next-generation biosensing applications. <i>Journal of Materials Chemistry B</i> , 2021, 9, 1189-1207.	5.8	27
20	Highly dispersed secondary building unit-stabilized binary metal center on a hierarchical porous carbon matrix for enhanced oxygen evolution reaction. <i>Nanoscale</i> , 2021, 13, 1213-1219.	5.6	22
21	Exploring Aluminum Ion Insertion into Magnesium-Doped Manjiroite (MnO <sub>2</sub> ) Nanorods in Aqueous Solution. <i>ChemElectroChem</i> , 2021, 8, 995-995.	3.4	0
22	Stable single atomic silver wires assembling into a circuitry-connectable nanoarray. <i>Nature Communications</i> , 2021, 12, 1191.	12.8	19
23	Elevated-temperature high-strength h-BN-doped Al <sub>2</sub> O <sub>3</sub> and Al <sub>7</sub> O <sub>5</sub> composites: Experimental and theoretical insights. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021, 809, 140969.	5.6	10
24	Structure and Superelasticity of Novel Zr-Rich Ti-Zr-Nb Shape Memory Alloys. <i>Shape Memory and Superelasticity</i> , 2021, 7, 304-313.	2.2	16
25	Biodegradable and Peroxidase-Mimetic Boron Oxynitride Nanozyme for Breast Cancer Therapy. <i>Advanced Science</i> , 2021, 8, e2101184.	11.2	27
26	Flexible conductive polymer composite materials based on strutted graphene foam. <i>Composites Communications</i> , 2021, 25, 100757.	6.3	27
27	Multi-heteroatom doped nanocarbons for high performance double carbon potassium ion capacitor. <i>Electrochimica Acta</i> , 2021, 389, 138717.	5.2	24
28	Zero-emission multivalORIZATION of light alcohols with self-separable pure H <sub>2</sub> fuel. <i>Applied Catalysis B: Environmental</i> , 2021, 292, 120212.	20.2	5
29	Probing the effect of Mg doping on triclinic Na <sub>2</sub> Mn <sub>3</sub> O <sub>7</sub> transition metal oxide as cathode material for sodium-ion batteries. <i>Electrochimica Acta</i> , 2021, 394, 139139.	5.2	17
30	Microstructure and catalytic properties of Fe <sub>3</sub> O <sub>4</sub> /BN, Fe <sub>3</sub> O <sub>4</sub> (Pt)/BN, and FePt/BN heterogeneous nanomaterials in CO <sub>2</sub> hydrogenation reaction: Experimental and theoretical insights. <i>Journal of Catalysis</i> , 2021, 402, 130-142.	6.2	21
31	Semiconductor nanochannels in metallic carbon nanotubes by thermomechanical chirality alteration. <i>Science</i> , 2021, 374, 1616-1620.	12.6	32
32	Recent Progress of In Situ Transmission Electron Microscopy for Energy Materials. <i>Advanced Materials</i> , 2020, 32, e1904094.	21.0	59
33	Holey Assembly of Two-Dimensional Iron-Doped Nickel-Cobalt Layered Double Hydroxide Nanosheets for Energy Conversion Application. <i>ChemSusChem</i> , 2020, 13, 1645-1655.	6.8	104
34	Self-assembly of nickel phosphate-based nanotubes into two-dimensional crumpled sheet-like architectures for high-performance asymmetric supercapacitors. <i>Nano Energy</i> , 2020, 67, 104270.	16.0	187
35	Unveiling the Working Mechanism of Graphene Bubble Film/Silicon Composite Anodes in Li-Ion Batteries: From Experiment to Modeling. <i>ACS Applied Energy Materials</i> , 2020, 3, 521-531.	5.1	24
36	Polyol Synthesis of Ag/BN Nanohybrids and their Catalytic Stability in CO Oxidation Reaction. <i>ChemCatChem</i> , 2020, 12, 1691-1698.	3.7	11

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37	Shaping and Edge Engineering of Few-Layered Freestanding Graphene Sheets in a Transmission Electron Microscope. <i>Nano Letters</i> , 2020, 20, 2279-2287.	9.1	5
38	Cross- $\text{SnO}_2$ - $\text{NiO}$ Nanofiber Array-Based Transparent Photodetectors with High Detectivity. <i>Advanced Electronic Materials</i> , 2020, 6, 1901048.	5.1	68
39	Spent graphite from end-of-life Li-ion batteries as a potential electrode for aluminium ion battery. <i>Sustainable Materials and Technologies</i> , 2020, 26, e00230.	3.3	19
40	Self-Assembly of Two-Dimensional Bimetallic Nickel-Cobalt Phosphate Nanoplates into One-Dimensional Porous Chainlike Architecture for Efficient Oxygen Evolution Reaction. <i>Chemistry of Materials</i> , 2020, 32, 7005-7018.	6.7	142
41	True Meaning of Pseudocapacitors and Their Performance Metrics: Asymmetric versus Hybrid Supercapacitors. <i>Small</i> , 2020, 16, e2002806.	10.0	405
42	Galvanic replacement of liquid metal Galinstan with copper for the formation of photocatalytically active nanomaterials. <i>New Journal of Chemistry</i> , 2020, 44, 14979-14988.	2.8	19
43	Hollow Zinc Oxide Microsphere-Multiwalled Carbon Nanotube Composites for Selective Detection of Sulfur Dioxide. <i>ACS Applied Nano Materials</i> , 2020, 3, 8982-8996.	5.0	42
44	Pristine and Antibiotic-Loaded Nanosheets/Nanoneedles-Based Boron Nitride Films as a Promising Platform to Suppress Bacterial and Fungal Infections. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 42485-42498.	8.0	30
45	Crystallography-derived optoelectronic and photovoltaic properties of $\text{CsPbBr}_3$ perovskite single crystals as revealed by in situ transmission electron microscopy. <i>Applied Materials Today</i> , 2020, 20, 100788.	4.3	7
46	Interfacial Engineering with Liquid Metal for Si-Based Hybrid Electrodes in Lithium-Ion Batteries. <i>ACS Applied Energy Materials</i> , 2020, 3, 5147-5152.	5.1	20
47	Atmospheric-pressure plasma seawater desalination: Clean energy, agriculture, and resource recovery nexus for a blue planet. <i>Sustainable Materials and Technologies</i> , 2020, 25, e00181.	3.3	13
48	A facile, environmentally friendly synthesis of strong photo-emissive methylammonium lead bromide perovskite nanocrystals enabled by ionic liquids. <i>Green Chemistry</i> , 2020, 22, 3433-3440.	9.0	29
49	Enriched pseudocapacitive lithium storage in electrochemically activated carbonaceous vanadium( $\text{V}^{IV}$ , $\text{V}^{V}$ ) oxide hydrate. <i>Journal of Materials Chemistry A</i> , 2020, 8, 13183-13196.	10.3	8
50	Sandwich-Structured Ordered Mesoporous Polydopamine/MXene Hybrids as High-Performance Anodes for Lithium-Ion Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 14993-15001.	8.0	48
51	Synthesis of Highly-Oriented Black $\text{CsPbI}_3$ Microstructures for High-Performance Solar Cells. <i>Chemistry of Materials</i> , 2020, 32, 3235-3244.	6.7	23
52	Manganese Doping in Cobalt Oxide Nanorods Promotes Catalytic Dehydrogenation. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 5734-5741.	6.7	19
53	Young's Modulus and Tensile Strength of $\text{Ti}_3\text{C}_2$ MXene Nanosheets As Revealed by <i>In Situ</i> TEM Probing, AFM Nanomechanical Mapping, and Theoretical Calculations. <i>Nano Letters</i> , 2020, 20, 5900-5908.	9.1	88
54	Engineering Platinum-Oxygen Dual Catalytic Sites via Charge Transfer towards Highly Efficient Hydrogen Evolution. <i>Angewandte Chemie</i> , 2020, 132, 17865-17871.	2.0	24

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55	Engineering Platinumâ€“Oxygen Dual Catalytic Sites via Charge Transfer towards Highly Efficient Hydrogen Evolution. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 17712-17718.	13.8	53
56	Tailorable nanoarchitecturing of bimetallic nickelâ€“cobalt hydrogen phosphate <i>via</i> the self-weaving of nanotubes for efficient oxygen evolution. <i>Journal of Materials Chemistry A</i> , 2020, 8, 3035-3047.	10.3	109
57	Below 200â€“C Fabrication Strategy of Blackâ€“Phase CsPbI <sub>3</sub> Film for Ambientâ€“Stable Solar Cells. <i>Solar Rrl</i> , 2020, 4, 2000014.	5.8	33
58	Diameter, strength and resistance tuning of double-walled carbon nanotubes in a transmission electron microscope. <i>Carbon</i> , 2020, 160, 98-106.	10.3	5
59	A MoS <sub>2</sub> /Carbon hybrid anode for high-performance Li-ion batteries at low temperature. <i>Nano Energy</i> , 2020, 70, 104550.	16.0	101
60	Stress-relieving defects enable ultra-stable silicon anode for Li-ion storage. <i>Nano Energy</i> , 2020, 70, 104568.	16.0	72
61	Dually-functionalized boron nitride nanotubes to target glioblastoma multiforme. <i>Materials Today Chemistry</i> , 2020, 16, 100270.	3.5	6
62	(Ni,Cu)/hexagonal BN nanohybrids â€“ New efficient catalysts for methanol steam reforming and carbon monoxide oxidation. <i>Chemical Engineering Journal</i> , 2020, 395, 125109.	12.7	39
63	Stabilising Cobalt Sulphide Nanocapsules with Nitrogen-Doped Carbon for High-Performance Sodium-Ion Storage. <i>Nano-Micro Letters</i> , 2020, 12, 48.	27.0	25
64	Probing electrochemical reactivity in an Sb <sub>2</sub> S <sub>3</sub> -containing potassium-ion battery anode: observation of an increased capacity. <i>Journal of Materials Chemistry A</i> , 2020, 8, 11424-11434.	10.3	30
65	<i>A Special Section on</i> Nanospace and Nanoarchitectonics. <i>Journal of Nanoscience and Nanotechnology</i> , 2020, 20, 5151-5152.	0.9	0
66	Multiscale Buffering Engineering in Siliconâ€“Carbon Anode for Ultrastable Li-Ion Storage. <i>ACS Nano</i> , 2019, 13, 10179-10190.	14.6	73
67	Thermal stability of CsPbBr <sub>3</sub> perovskite as revealed by <i>in situ</i> transmission electron microscopy. <i>APL Materials</i> , 2019, 7, .	5.1	39
68	Intrinsic and Defect-Related Elastic Moduli of Boron Nitride Nanotubes As Revealed by <i>in Situ</i> Transmission Electron Microscopy. <i>Nano Letters</i> , 2019, 19, 4974-4980.	9.1	8
69	Kinking effects and transport properties of coaxial BN-C nanotubes as revealed by <i>in situ</i> transmission electron microscopy and theoretical analysis. <i>APL Materials</i> , 2019, 7, 101118.	5.1	0
70	Effect of Fe <sup>3+</sup> for Ru <sup>4+</sup> substitution in disordered Na <sub>1.33</sub> Ru <sub>0.67</sub> O <sub>2</sub> cathode for sodium-ion batteries: Structural and electrochemical characterizations. <i>Electrochimica Acta</i> , 2019, 325, 134926.	5.2	10
71	Self-sacrificial templated synthesis of a three-dimensional hierarchical macroporous honeycomb-like ZnO/ZnCo <sub>2</sub> O <sub>4</sub> hybrid for carbon monoxide sensing. <i>Journal of Materials Chemistry A</i> , 2019, 7, 3415-3425.	10.3	66
72	Zincâ€“Tiered Synthesis of 3D Graphene for Monolithic Electrodes. <i>Advanced Materials</i> , 2019, 31, e1901186.	21.0	68

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73	Experimental Analysis of the Morphology and Nanostructure of Soot Particles for Butanol/Diesel Blends at Different Engine Operating Modes. <i>Energy &amp; Fuels</i> , 2019, 33, 5632-5646.	5.1	25
74	Influence of fuel-oxygen content on morphology and nanostructure of soot particles. <i>Combustion and Flame</i> , 2019, 205, 206-219.	5.2	67
75	ZnO quantum dots anchored in multilayered and flexible amorphous carbon sheets for high performance and stable lithium ion batteries. <i>Journal of Materials Chemistry A</i> , 2019, 7, 8460-8471.	10.3	66
76	Realization and direct observation of five normal and parametric modes in silicon nanowire resonators by <i>in situ</i> transmission electron microscopy. <i>Nanoscale Advances</i> , 2019, 1, 1784-1790.	4.6	4
77	Size Effects on the Mechanical Properties of Nanoporous Graphene Networks. <i>Advanced Functional Materials</i> , 2019, 29, 1900311.	14.9	20
78	Crystallography-Derived Young's Modulus and Tensile Strength of AlN Nanowires as Revealed by <i>in Situ</i> Transmission Electron Microscopy. <i>Nano Letters</i> , 2019, 19, 2084-2091.	9.1	11
79	Microporous materials formed via intercalation of ultrathin coordination polymers in a layered silicate. <i>Nano Energy</i> , 2019, 59, 162-168.	16.0	8
80	Development of thermoelectric thin films and characterization methods. <i>Journal of Physics: Conference Series</i> , 2019, 1407, 012055.	0.4	1
81	Structural evolution of Ag/BN hybrids via a polyol-assisted fabrication process and their catalytic activity in CO oxidation. <i>Catalysis Science and Technology</i> , 2019, 9, 6460-6470.	4.1	7
82	Development of Nanoscale Thermocouple Probes for Local Thermal Measurements. <i>E-Journal of Surface Science and Nanotechnology</i> , 2019, 17, 102-107.	0.4	2
83	Spark plasma sintered Al-based composites reinforced with BN nanosheets exfoliated under ball milling in ethylene glycol. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019, 745, 74-81.	5.6	33
84	Al-BN interaction in a high-strength lightweight Al/BN metal-matrix composite: Theoretical modelling and experimental verification. <i>Journal of Alloys and Compounds</i> , 2019, 782, 875-880.	5.5	20
85	Tunable Mechanical and Electrical Properties of Coaxial BN Nanotubes. <i>Physica Status Solidi - Rapid Research Letters</i> , 2019, 13, 1800576.	2.4	3
86	Enhanced Li-ion Storage Performance of MoS <sub>2</sub> through Multistage Structural Design. <i>ChemElectroChem</i> , 2019, 6, 1475-1484.	3.4	12
87	Compressive properties of hollow BN nanoparticles: theoretical modeling and testing using a high-resolution transmission electron microscope. <i>Nanoscale</i> , 2018, 10, 8099-8105.	5.6	8
88	ZnS quantum dots@multilayered carbon: geological-plate-movement-inspired design for high-energy Li-ion batteries. <i>Journal of Materials Chemistry A</i> , 2018, 6, 8358-8365.	10.3	37
89	Caging tin oxide in three-dimensional graphene networks for superior volumetric lithium storage. <i>Nature Communications</i> , 2018, 9, 402.	12.8	227
90	Al-based composites reinforced with AlB <sub>2</sub> , AlN and BN phases: Experimental and theoretical studies. <i>Materials and Design</i> , 2018, 141, 88-98.	7.0	69

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91	BN nanoparticle/Ag hybrids with enhanced catalytic activity: theory and experiments. <i>Catalysis Science and Technology</i> , 2018, 8, 1652-1662.	4.1	23
92	Construction of Polarized Carbon-Nickel Catalytic Surfaces for Potent, Durable, and Economic Hydrogen Evolution Reactions. <i>ACS Nano</i> , 2018, 12, 4148-4155.	14.6	121
93	Three-dimensional electrode with conductive Cu framework for stable and fast Li-ion storage. <i>Energy Storage Materials</i> , 2018, 11, 83-90.	18.0	32
94	Gold-Loaded Nanoporous Iron Oxide Cubes Derived from Prussian Blue as Carbon Monoxide Oxidation Catalyst at Room Temperature. <i>ChemistrySelect</i> , 2018, 3, 13464-13469.	1.5	10
95	Crystal facet engineering induced anisotropic transport of charge carriers in a perovskite. <i>Journal of Materials Chemistry C</i> , 2018, 6, 11707-11713.	5.5	14
96	Paper-Derived Flexible 3D Interconnected Carbon Microfiber Networks with Controllable Pore Sizes for Supercapacitors. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 37046-37056.	8.0	38
97	Mechanical, Electrical, and Crystallographic Property Dynamics of Bent and Strained Ge/Si Core-Shell Nanowires As Revealed by <i>in situ</i> Transmission Electron Microscopy. <i>Nano Letters</i> , 2018, 18, 7238-7246.	9.1	18
98	Synthetic routes, structure and catalytic activity of Ag/BN nanoparticle hybrids toward CO oxidation reaction. <i>Journal of Catalysis</i> , 2018, 368, 217-227.	6.2	18
99	BN/Ag hybrid nanomaterials with petal-like surfaces as catalysts and antibacterial agents. <i>Beilstein Journal of Nanotechnology</i> , 2018, 9, 250-261.	2.8	18
100	Fabrication and application of BN nanoparticles, nanosheets and their nanohybrids. <i>Nanoscale</i> , 2018, 10, 17477-17493.	5.6	75
101	Photocatalysis with Pt-Au-ZnO and Au-ZnO Hybrids: Effect of Charge Accumulation and Discharge Properties of Metal Nanoparticles. <i>Langmuir</i> , 2018, 34, 7334-7345.	3.5	47
102	Progress and future prospects of high-voltage and high-safety electrolytes in advanced lithium batteries: from liquid to solid electrolytes. <i>Journal of Materials Chemistry A</i> , 2018, 6, 11631-11663.	10.3	243
103	The Role of Geometric Sites in 2D Materials for Energy Storage. <i>Joule</i> , 2018, 2, 1075-1094.	24.0	108
104	Improved cycling stability of NiS <sub>2</sub> cathodes through designing a hollow structure. <i>Journal of Materials Chemistry A</i> , 2018, 6, 11978-11984.	10.3	37
105	Room temperature carbon monoxide oxidation based on two-dimensional gold-loaded mesoporous iron oxide nanoflakes. <i>Chemical Communications</i> , 2018, 54, 8514-8517.	4.1	27
106	Chirality transitions and transport properties of individual few-walled carbon nanotubes as revealed by <i>in situ</i> TEM probing. <i>Ultramicroscopy</i> , 2018, 194, 108-116.	1.9	9
107	Visualizing nanoscale heat pathways. <i>Nano Energy</i> , 2018, 52, 323-328.	16.0	16
108	Electronic and Optical Properties of 2D Materials Constructed from Light Atoms. <i>Advanced Materials</i> , 2018, 30, e1801600.	21.0	36



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109	Preparation of 3D open ordered mesoporous carbon single-crystals and their structural evolution during ammonia activation. <i>Chemical Communications</i> , 2018, 54, 9494-9497.	4.1	15
110	Ultrasharp h-BN Nanocones and the Origin of Their High Mechanical Stiffness and Large Dipole Moment. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 5086-5091.	4.6	11
111	Densely Interconnected Porous BN Frameworks for Multifunctional and Isotropically Thermoconductive Polymer Composites. <i>Advanced Functional Materials</i> , 2018, 28, 1801205.	14.9	76
112	Structure and composition analysis of nanotubes and ceramics by a new 300 kV energy-filtered FEGTEM. , 2018, , 83-90.		0
113	In situ electrochemical formation of core-shell nickel-iron disulfide and oxyhydroxide heterostructured catalysts for a stable oxygen evolution reaction and the associated mechanisms. <i>Journal of Materials Chemistry A</i> , 2017, 5, 4335-4342.	10.3	166
114	Hollow boron nitride nanospheres as boron reservoir for prostate cancer treatment. <i>Nature Communications</i> , 2017, 8, 13936.	12.8	109
115	Improved Li <sup>+</sup> Storage through Homogeneous N-Doping within Highly Branched Tubular Graphitic Foam. <i>Advanced Materials</i> , 2017, 29, 1603692.	21.0	113
116	In Situ Electrochemistry of Rechargeable Battery Materials: Status Report and Perspectives. <i>Advanced Materials</i> , 2017, 29, 1606922.	21.0	81
117	Tuning of the Optical, Electronic, and Magnetic Properties of Boron Nitride Nanosheets with Oxygen Doping and Functionalization. <i>Advanced Materials</i> , 2017, 29, 1700695.	21.0	168
118	Few-atomic-layered hexagonal boron nitride: CVD growth, characterization, and applications. <i>Materials Today</i> , 2017, 20, 611-628.	14.2	96
119	Protrusions or holes in graphene: which is the better choice for sodium ion storage?. <i>Energy and Environmental Science</i> , 2017, 10, 979-986.	30.8	164
120	Nanometer-scale mapping of defect-induced luminescence centers in cadmium sulfide nanowires. <i>Applied Physics Letters</i> , 2017, 110, .	3.3	6
121	High-strength aluminum-based composites reinforced with BN, AlB <sub>2</sub> and AlN particles fabricated via reactive spark plasma sintering of Al-BN powder mixtures. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017, 681, 1-9.	5.6	93
122	Torsional Resonators Based on Inorganic Nanotubes. <i>Nano Letters</i> , 2017, 17, 28-35.	9.1	28
123	Multifunctional Superelastic Foam-Like Boron Nitride Nanotubular Cellular-Network Architectures. <i>ACS Nano</i> , 2017, 11, 558-568.	14.6	110
124	Boron nitride nanotube-based amphiphilic hybrid nanomaterials for superior encapsulation of hydrophobic cargos. <i>Materials Today Chemistry</i> , 2017, 6, 45-50.	3.5	14
125	Graphene Ingestion and Regrowth on Carbon-Starved Metal Electrodes. <i>ACS Nano</i> , 2017, 11, 10575-10582.	14.6	2
126	Effect of BN Nanoparticles Loaded with Doxorubicin on Tumor Cells with Multiple Drug Resistance. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 32498-32508.	8.0	27



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127	Optical and Optoelectronic Property Analysis of Nanomaterials inside Transmission Electron Microscope. <i>Small</i> , 2017, 13, 1701564.	10.0	19
128	Synthesis and Characterization of Folate Conjugated Boron Nitride Nanocarriers for Targeted Drug Delivery. <i>Journal of Physical Chemistry C</i> , 2017, 121, 28096-28105.	3.1	29
129	BN Nanosheet/Polymer Films with Highly Anisotropic Thermal Conductivity for Thermal Management Applications. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 43163-43170.	8.0	190
130	Cathodoluminescence Mapping of Defect Regions in Cadmium Sulfide Nanowires. <i>Microscopy and Microanalysis</i> , 2017, 23, 1696-1697.	0.4	0
131	Mechanical properties of decellularized extracellular matrix coated with TiCaPCON film. <i>Biomedical Materials (Bristol)</i> , 2017, 12, 035014.	3.3	12
132	Nano-micro-porous skutterudites with 100% enhancement in ZT for high performance thermoelectricity. <i>Nano Energy</i> , 2017, 31, 152-159.	16.0	201
133	Boron nitride nanotubes as drug carriers. , 2016, , 79-94.		5
134	High-performance Solar-blind Deep Ultraviolet Photodetector Based on Individual Single-crystalline Zn <sub>2</sub> GeO <sub>4</sub> Nanowire. <i>Advanced Functional Materials</i> , 2016, 26, 704-712.	14.9	163
135	Boron nitride nanotube-enhanced osteogenic differentiation of mesenchymal stem cells. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2016, 104, 323-329.	3.4	61
136	Surface Phonon Coupling within Boron Nitride Nanotubes Resolved by a Novel Near-Field Infrared Pump-Probe Imaging Technique.. <i>Microscopy and Microanalysis</i> , 2016, 22, 366-367.	0.4	0
137	In situ fabrication and investigation of nanostructures and nanodevices with a microscope. <i>Chemical Society Reviews</i> , 2016, 45, 2694-2713.	38.1	30
138	Nanostructured polymeric yolk-shell capsules: a versatile tool for hierarchical nanocatalyst design. <i>Journal of Materials Chemistry A</i> , 2016, 4, 9850-9857.	10.3	14
139	Hybrid two-dimensional materials in rechargeable battery applications and their microscopic mechanisms. <i>Chemical Society Reviews</i> , 2016, 45, 4042-4073.	38.1	194
140	Boron nitride nanotubes as vehicles for intracellular delivery of fluorescent drugs and probes. <i>Nanomedicine</i> , 2016, 11, 447-463.	3.3	41
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