

Dmitri Golberg

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

748 papers	52,861 citations	121 h-index	197 g-index
804 ext. papers	57,653 ext. citations	9.9 avg, IF	7.69 L-index

#	Paper	IF	Citations
748	Optomechanical Properties of MoSe Nanosheets as Revealed by Transmission Electron Microscopy.. <i>Nano Letters</i> , 2022 ,	11.5	1
747	Probing interfacial interactions and dynamics of polymers enclosed in boron nitride nanotubes. <i>Journal of Polymer Science</i> , 2022 , 60, 233	2.4	
746	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,	5.6	2
745	Ultra-stable sodium ion storage of biomass porous carbon derived from sugarcane. <i>Chemical Engineering Journal</i> , 2022 , 136344	14.7	3
744	Efficient lithium-ion storage using a heterostructured porous carbon framework and its transmission electron microscopy study.. <i>Chemical Communications</i> , 2021 ,	5.8	4
743	Hexagonal BN- and BNO-supported Au and Pt nanocatalysts in carbon monoxide oxidation and carbon dioxide hydrogenation reactions. <i>Applied Catalysis B: Environmental</i> , 2021 , 120891	21.8	4
742	Borophene: Two-dimensional Boron Monolayer: Synthesis, Properties, and Potential Applications. <i>Chemical Reviews</i> , 2021 ,	68.1	16
741	Elevated-temperature high-strength h-BN-doped Al ₂₀₁₄ and Al ₇₀₇₅ composites: Experimental and theoretical insights. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021 , 809, 140969	5.3	4
740	Structure and Superelasticity of Novel Zr-Rich Ti-ZrNb Shape Memory Alloys. <i>Shape Memory and Superelasticity</i> , 2021 , 7, 304-313	2.8	3
739	Biodegradable and Peroxidase-Mimetic Boron Oxynitride Nanozyme for Breast Cancer Therapy. <i>Advanced Science</i> , 2021 , 8, e2101184	13.6	7
738	Flexible conductive polymer composite materials based on strutted graphene foam. <i>Composites Communications</i> , 2021 , 25, 100757	6.7	13
737	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	14.7	72
736	Nacre-bionic nanocomposite membrane for efficient in-plane dissipation heat harvest under high temperature. <i>Journal of Materiomics</i> , 2021 , 7, 219-225	6.7	6
735	Hydrogen Storage in Carbon and Oxygen Co-Doped Porous Boron Nitrides. <i>Advanced Functional Materials</i> , 2021 , 31, 2007381	15.6	16
734	Na _{0.67} Mn(1-x)Fe _x O ₂ Compounds as High-Capacity Cathode Materials for Rechargeable Sodium-Ion Batteries. <i>ChemElectroChem</i> , 2021 , 8, 508-516	4.3	1
733	Exploring Aluminum-Ion Insertion into Magnesium-Doped Manjiroite (MnO ₂) Nanorods in Aqueous Solution. <i>ChemElectroChem</i> , 2021 , 8, 1048-1054	4.3	1
732	The effect of Ti ₃ AlC ₂ MAX phase synthetic history on the structure and electrochemical properties of resultant Ti ₃ C ₂ MXenes. <i>Materials and Design</i> , 2021 , 199, 109403	8.1	6

731	Mesoporous TiO ₂ -based architectures as promising sensing materials towards next-generation biosensing applications. <i>Journal of Materials Chemistry B</i> , 2021 , 9, 1189-1207	7.3	14
730	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	7.7	10
729	Exploring Aluminum-Ion Insertion into Magnesium-Doped Manjiroite (MnO ₂) Nanorods in Aqueous Solution. <i>ChemElectroChem</i> , 2021 , 8, 995-995	4.3	
728	Stable single atomic silver wires assembling into a circuitry-connectable nanoarray. <i>Nature Communications</i> , 2021 , 12, 1191	17.4	3
727	Multi-heteroatom doped nanocarbons for high performance double carbon potassium ion capacitor. <i>Electrochimica Acta</i> , 2021 , 389, 138717	6.7	11
726	Zero-emission multivalORIZATION of light alcohols with self-separable pure H ₂ fuel. <i>Applied Catalysis B: Environmental</i> , 2021 , 292, 120212	21.8	0
725	Probing the effect of Mg doping on triclinic Na ₂ Mn ₃ O ₇ transition metal oxide as cathode material for sodium-ion batteries. <i>Electrochimica Acta</i> , 2021 , 394, 139139	6.7	6
724	Microstructure and catalytic properties of Fe ₃ O ₄ /BN, Fe ₃ O ₄ (Pt)/BN, and FePt/BN heterogeneous nanomaterials in CO ₂ hydrogenation reaction: Experimental and theoretical insights. <i>Journal of Catalysis</i> , 2021 , 402, 130-142	7.3	3
723	Semiconductor nanochannels in metallic carbon nanotubes by thermomechanical chirality alteration.. <i>Science</i> , 2021 , 374, 1616-1620	33.3	8
722	Interfacial Engineering with Liquid Metal for Si-Based Hybrid Electrodes in Lithium-Ion Batteries. <i>ACS Applied Energy Materials</i> , 2020 , 3, 5147-5152	6.1	10
721	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	5.3	2
720	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	10	9
719	Enriched pseudocapacitive lithium storage in electrochemically activated carbonaceous vanadium(IV, V) oxide hydrate. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 13183-13196	13	6
718	Sandwich-Structured Ordered Mesoporous Polydopamine/MXene Hybrids as High-Performance Anodes for Lithium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 14993-15001	9.5	25
717	Synthesis of Highly-Oriented Black CsPbI ₃ Microstructures for High-Performance Solar Cells. <i>Chemistry of Materials</i> , 2020 , 32, 3235-3244	9.6	14
716	Manganese Doping in Cobalt Oxide Nanorods Promotes Catalytic Dehydrogenation. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 5734-5741	8.3	8
715	Young's Modulus and Tensile Strength of TiC MXene Nanosheets As Revealed by TEM Probing, AFM Nanomechanical Mapping, and Theoretical Calculations. <i>Nano Letters</i> , 2020 , 20, 5900-5908	11.5	29
714	Engineering Platinum-Oxygen Dual Catalytic Sites via Charge Transfer towards Highly Efficient Hydrogen Evolution. <i>Angewandte Chemie</i> , 2020 , 132, 17865-17871	3.6	11

713	Engineering Platinum-Oxygen Dual Catalytic Sites via Charge Transfer towards Highly Efficient Hydrogen Evolution. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 17712-17718	16.4	28
712	Tailorable nanoarchitecturing of bimetallic nickel-cobalt hydrogen phosphate via the self-weaving of nanotubes for efficient oxygen evolution. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 3035-3047	13	34
711	Below 200 °C Fabrication Strategy of Black-Phase CsPbI ₃ Film for Ambient-Air-Stable Solar Cells. <i>Solar Rrl</i> , 2020 , 4, 2000014	7.1	22
710	Diameter, strength and resistance tuning of double-walled carbon nanotubes in a transmission electron microscope. <i>Carbon</i> , 2020 , 160, 98-106	10.4	3
709	A MoS ₂ /Carbon hybrid anode for high-performance Li-ion batteries at low temperature. <i>Nano Energy</i> , 2020 , 70, 104550	17.1	52
708	Stress-relieving defects enable ultra-stable silicon anode for Li-ion storage. <i>Nano Energy</i> , 2020 , 70, 104568	17.1	36
707	Dually-functionalized boron nitride nanotubes to target glioblastoma multiforme. <i>Materials Today Chemistry</i> , 2020 , 16, 100270	6.2	2
706	(Ni,Cu)/hexagonal BN nanohybrids [New efficient catalysts for methanol steam reforming and carbon monoxide oxidation. <i>Chemical Engineering Journal</i> , 2020 , 395, 125109	14.7	16
705	Stabilising Cobalt Sulphide Nanocapsules with Nitrogen-Doped Carbon for High-Performance Sodium-Ion Storage. <i>Nano-Micro Letters</i> , 2020 , 12, 48	19.5	13
704	Probing electrochemical reactivity in an Sb ₂ S ₃ -containing potassium-ion battery anode: observation of an increased capacity. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 11424-11434	13	16
703	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	17.1	129
702	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	6.1	8
701	Polyol Synthesis of Ag/BN Nanohybrids and their Catalytic Stability in CO Oxidation Reaction. <i>ChemCatChem</i> , 2020 , 12, 1691-1698	5.2	5
700	Shaping and Edge Engineering of Few-Layered Freestanding Graphene Sheets in a Transmission Electron Microscope. <i>Nano Letters</i> , 2020 , 20, 2279-2287	11.5	3
699	Cross-Bar SnO ₂ -NiO Nanofiber-Array-Based Transparent Photodetectors with High Detectivity. <i>Advanced Electronic Materials</i> , 2020 , 6, 1901048	6.4	39
698	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	5.3	5
697	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	9.6	70
696	True Meaning of Pseudocapacitors and Their Performance Metrics: Asymmetric versus Hybrid Supercapacitors. <i>Small</i> , 2020 , 16, e2002806	11	142

695	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	3.6	7
694	Hollow Zinc Oxide Microsphere/Multiwalled Carbon Nanotube Composites for Selective Detection of Sulfur Dioxide. <i>ACS Applied Nano Materials</i> , 2020 , 3, 8982-8996	5.6	22
693	Pristine and Antibiotic-Loaded Nanosheets/Nanoneedles-Based Boron Nitride Films as a Promising Platform to Suppress Bacterial and Fungal Infections. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 42485-42498	9.5	11
692	Crystallography-derived optoelectronic and photovoltaic properties of CsPbBr ₃ perovskite single crystals as revealed by in situ transmission electron microscopy. <i>Applied Materials Today</i> , 2020 , 20, 100788	6.6	5
691	Recent Progress of In Situ Transmission Electron Microscopy for Energy Materials. <i>Advanced Materials</i> , 2020 , 32, e1904094	24	33
690	Holey Assembly of Two-Dimensional Iron-Doped Nickel-Cobalt Layered Double Hydroxide Nanosheets for Energy Conversion Application. <i>ChemSusChem</i> , 2020 , 13, 1645-1655	8.3	37
689	Effect of Fe ³⁺ for Ru ⁴⁺ substitution in disordered Na _{1.33} Ru _{0.67} O ₂ cathode for sodium-ion batteries: Structural and electrochemical characterizations. <i>Electrochimica Acta</i> , 2019 , 325, 134926	6.7	5
688	Self-sacrificial templated synthesis of a three-dimensional hierarchical macroporous honeycomb-like ZnO/ZnCo ₂ O ₄ hybrid for carbon monoxide sensing. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 3415-3425	13	49
687	Zinc-Tiered Synthesis of 3D Graphene for Monolithic Electrodes. <i>Advanced Materials</i> , 2019 , 31, e1901186	24	42
686	Experimental Analysis of the Morphology and Nanostructure of Soot Particles for Butanol/Diesel Blends at Different Engine Operating Modes. <i>Energy & Fuels</i> , 2019 , 33, 5632-5646	4.1	19
685	Influence of fuel-oxygen content on morphology and nanostructure of soot particles. <i>Combustion and Flame</i> , 2019 , 205, 206-219	5.3	42
684	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	13	43
683	Realization and direct observation of five normal and parametric modes in silicon nanowire resonators by in situ transmission electron microscopy. <i>Nanoscale Advances</i> , 2019 , 1, 1784-1790	5.1	2
682	Size Effects on the Mechanical Properties of Nanoporous Graphene Networks. <i>Advanced Functional Materials</i> , 2019 , 29, 1900311	15.6	13
681	Crystallography-Derived Young's Modulus and Tensile Strength of AlN Nanowires as Revealed by in Situ Transmission Electron Microscopy. <i>Nano Letters</i> , 2019 , 19, 2084-2091	11.5	7
680	Microporous materials formed via intercalation of ultrathin coordination polymers in a layered silicate. <i>Nano Energy</i> , 2019 , 59, 162-168	17.1	8
679	Multiscale Buffering Engineering in Silicon-Carbon Anode for Ultrastable Li-Ion Storage. <i>ACS Nano</i> , 2019 , 13, 10179-10190	16.7	42
678	Thermal stability of CsPbBr ₃ perovskite as revealed by in situ transmission electron microscopy. <i>APL Materials</i> , 2019 , 7, 071110	5.7	21

677	Intrinsic and Defect-Related Elastic Moduli of Boron Nitride Nanotubes As Revealed by Transmission Electron Microscopy. <i>Nano Letters</i> , 2019 , 19, 4974-4980	11.5	3
676	Kinking effects and transport properties of coaxial BN-C nanotubes as revealed by in situ transmission electron microscopy and theoretical analysis. <i>APL Materials</i> , 2019 , 7, 101118	5.7	
675	Development of thermoelectric thin films and characterization methods. <i>Journal of Physics: Conference Series</i> , 2019 , 1407, 012055	0.3	0
674	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	5.5	4
673	Development of Nanoscale Thermocouple Probes for Local Thermal Measurements. <i>E-Journal of Surface Science and Nanotechnology</i> , 2019 , 17, 102-107	0.7	
672	Spark plasma sintered Al-based composites reinforced with BN nanosheets exfoliated under ball milling in ethylene glycol. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019 , 745, 74-81	5.3	19
671	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	5.7	7
670	Tunable Mechanical and Electrical Properties of Coaxial BN-C Nanotubes. <i>Physica Status Solidi - Rapid Research Letters</i> , 2019 , 13, 1800576	2.5	2
669	Enhanced Li-Ion-Storage Performance of MoS ₂ through Multistage Structural Design. <i>ChemElectroChem</i> , 2019 , 6, 1475-1484	4.3	9
668	Compressive properties of hollow BN nanoparticles: theoretical modeling and testing using a high-resolution transmission electron microscope. <i>Nanoscale</i> , 2018 , 10, 8099-8105	7.7	5
667	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	13	29
666	Caging tin oxide in three-dimensional graphene networks for superior volumetric lithium storage. <i>Nature Communications</i> , 2018 , 9, 402	17.4	186
665	Al-based composites reinforced with AlB ₂ , AlN and BN phases: Experimental and theoretical studies. <i>Materials and Design</i> , 2018 , 141, 88-98	8.1	47
664	BN nanoparticle/Ag hybrids with enhanced catalytic activity: theory and experiments. <i>Catalysis Science and Technology</i> , 2018 , 8, 1652-1662	5.5	14
663	Construction of Polarized Carbon-Nickel Catalytic Surfaces for Potent, Durable, and Economic Hydrogen Evolution Reactions. <i>ACS Nano</i> , 2018 , 12, 4148-4155	16.7	97
662	Three-dimensional electrode with conductive Cu framework for stable and fast Li-ion storage. <i>Energy Storage Materials</i> , 2018 , 11, 83-90	19.4	26
661	Chirality transitions and transport properties of individual few-walled carbon nanotubes as revealed by in situ TEM probing. <i>Ultramicroscopy</i> , 2018 , 194, 108-116	3.1	6
660	Visualizing nanoscale heat pathways. <i>Nano Energy</i> , 2018 , 52, 323-328	17.1	11

659	Electronic and Optical Properties of 2D Materials Constructed from Light Atoms. <i>Advanced Materials</i> , 2018 , 30, e1801600	24	24
658	Preparation of 3D open ordered mesoporous carbon single-crystals and their structural evolution during ammonia activation. <i>Chemical Communications</i> , 2018 , 54, 9494-9497	5.8	12
657	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	6.4	7
656	Densely Interconnected Porous BN Frameworks for Multifunctional and Isotropically Thermoconductive Polymer Composites. <i>Advanced Functional Materials</i> , 2018 , 28, 1801205	15.6	50
655	Structure and composition analysis of nanotubes and ceramics by a new 300 kV energy-filtered FEGTEM 2018 , 83-90		
654	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	1.8	7
653	Crystal facet engineering induced anisotropic transport of charge carriers in a perovskite. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 11707-11713	7.1	11
652	Paper-Derived Flexible 3D Interconnected Carbon Microfiber Networks with Controllable Pore Sizes for Supercapacitors. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 37046-37056	9.5	25
651	Mechanical, Electrical, and Crystallographic Property Dynamics of Bent and Strained Ge/Si Core-Shell Nanowires As Revealed by in situ Transmission Electron Microscopy. <i>Nano Letters</i> , 2018 , 18, 7238-7246	11.5	9
650	Synthetic routes, structure and catalytic activity of Ag/BN nanoparticle hybrids toward CO oxidation reaction. <i>Journal of Catalysis</i> , 2018 , 368, 217-227	7.3	12
649	BN/Ag hybrid nanomaterials with petal-like surfaces as catalysts and antibacterial agents. <i>Beilstein Journal of Nanotechnology</i> , 2018 , 9, 250-261	3	14
648	Fabrication and application of BN nanoparticles, nanosheets and their nanohybrids. <i>Nanoscale</i> , 2018 , 10, 17477-17493	7.7	52
647	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	4	32
646	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	13	166
645	The Role of Geometric Sites in 2D Materials for Energy Storage. <i>Joule</i> , 2018 , 2, 1075-1094	27.8	75
644	Improved cycling stability of NiS ₂ cathodes through designing a Ni-wano-hollow structure. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 11978-11984	13	23
643	Room temperature carbon monoxide oxidation based on two-dimensional gold-loaded mesoporous iron oxide nanoflakes. <i>Chemical Communications</i> , 2018 , 54, 8514-8517	5.8	21
642	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	13	126

641	Hollow boron nitride nanospheres as boron reservoir for prostate cancer treatment. <i>Nature Communications</i> , 2017 , 8, 13936	17.4	86
640	Improved Li Storage through Homogeneous N-Doping within Highly Branched Tubular Graphitic Foam. <i>Advanced Materials</i> , 2017 , 29, 1603692	24	86
639	In Situ Electrochemistry of Rechargeable Battery Materials: Status Report and Perspectives. <i>Advanced Materials</i> , 2017 , 29, 1606922	24	65
638	Tuning of the Optical, Electronic, and Magnetic Properties of Boron Nitride Nanosheets with Oxygen Doping and Functionalization. <i>Advanced Materials</i> , 2017 , 29, 1700695	24	109
637	Few-atomic-layered hexagonal boron nitride: CVD growth, characterization, and applications. <i>Materials Today</i> , 2017 , 20, 611-628	21.8	66
636	Protrusions or Holes in graphene: which is the better choice for sodium ion storage?. <i>Energy and Environmental Science</i> , 2017 , 10, 979-986	35.4	140
635	Nanometer-scale mapping of defect-induced luminescence centers in cadmium sulfide nanowires. <i>Applied Physics Letters</i> , 2017 , 110, 111904	3.4	5
634	High-strength aluminum-based composites reinforced with BN, AlB ₂ and AlN particles fabricated via reactive spark plasma sintering of Al-BN powder mixtures. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017 , 681, 1-9	5.3	67
633	Torsional Resonators Based on Inorganic Nanotubes. <i>Nano Letters</i> , 2017 , 17, 28-35	11.5	18
632	Multifunctional Superelastic Foam-Like Boron Nitride Nanotubular Cellular-Network Architectures. <i>ACS Nano</i> , 2017 , 11, 558-568	16.7	76
631	Boron nitride nanotube-based amphiphilic hybrid nanomaterials for superior encapsulation of hydrophobic cargos. <i>Materials Today Chemistry</i> , 2017 , 6, 45-50	6.2	10
630	Graphene Ingestion and Regrowth on "Carbon-Starved" Metal Electrodes. <i>ACS Nano</i> , 2017 , 11, 10575-10587	16.7	2
629	Effect of BN Nanoparticles Loaded with Doxorubicin on Tumor Cells with Multiple Drug Resistance. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 32498-32508	9.5	23
628	Optical and Optoelectronic Property Analysis of Nanomaterials inside Transmission Electron Microscope. <i>Small</i> , 2017 , 13, 1701564	11	17
627	Synthesis and Characterization of Folate Conjugated Boron Nitride Nanocarriers for Targeted Drug Delivery. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 28096-28105	3.8	23
626	BN Nanosheet/Polymer Films with Highly Anisotropic Thermal Conductivity for Thermal Management Applications. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 43163-43170	9.5	145
625	Cathodoluminescence Mapping of Defect Regions in Cadmium Sulfide Nanowires. <i>Microscopy and Microanalysis</i> , 2017 , 23, 1696-1697	0.5	
624	Mechanical properties of decellularized extracellular matrix coated with TiCaPCON film. <i>Biomedical Materials (Bristol)</i> , 2017 , 12, 035014	3.5	8

623	Nano-micro-porous skutterudites with 100% enhancement in ZT for high performance thermoelectricity. <i>Nano Energy</i> , 2017 , 31, 152-159	17.1	152
622	In situ TEM measurements of mechanical properties of individual spherical BN nanoparticles of different morphologies 2016 , 45-46		
621	Functionalization of boron nitride nanotubes for applications in nanobiomedicine 2016 , 17-40		5
620	Reversible Tuning of Individual Carbon Nanotube Mechanical Properties via Defect Engineering. <i>Nano Letters</i> , 2016 , 16, 5221-7	11.5	21
619	Growth of spherical boron oxynitride nanoparticles with smooth and petalled surfaces during a chemical vapour deposition process. <i>CrystEngComm</i> , 2016 , 18, 6689-6699	3.3	11
618	Mechanical properties and current-carrying capacity of Al reinforced with graphene/BN nanoribbons: a computational study. <i>Nanoscale</i> , 2016 , 8, 20080-20089	7.7	14
617	Electrical Characteristics: High Performance Solar-Blind Deep Ultraviolet Photodetector Based on Individual Single-Crystalline Zn ₂ GeO ₄ Nanowire (Adv. Funct. Mater. 5/2016). <i>Advanced Functional Materials</i> , 2016 , 26, 804-804	15.6	3
616	Remarkable Charge Separation and Photocatalytic Efficiency Enhancement through Interconnection of TiO ₂ Nanoparticles by Hydrothermal Treatment. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 3600-5	16.4	97
615	Engineering sulfur vacancies and impurities in NiCo ₂ S ₄ nanostructures toward optimal supercapacitive performance. <i>Nano Energy</i> , 2016 , 26, 313-323	17.1	273
614	Pectin-coated boron nitride nanotubes: In vitro cyto-/immune-compatibility on RAW 264.7 macrophages. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2016 , 1860, 775-84	4	25
613	Microwave method for synthesis of micro- and nanostructures with controllable composition during gyrotron discharge. <i>Journal of Nanophotonics</i> , 2016 , 10, 012520	1.1	9
612	Nanostructured BN-Mg composites: features of interface bonding and mechanical properties. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 965-9	3.6	10
611	Structural analysis and atomic simulation of Ag/BN nanoparticle hybrids obtained by Ag ion implantation. <i>Materials and Design</i> , 2016 , 98, 167-173	8.1	15
610	Amorphous Phosphorus/Nitrogen-Doped Graphene Paper for Ultrastable Sodium-Ion Batteries. <i>Nano Letters</i> , 2016 , 16, 2054-60	11.5	286
609	Defects and Deformation of Boron Nitride Nanotubes Studied by Joint Nanoscale Mechanical and Infrared Near-Field Microscopy. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 1945-1951	3.8	19
608	Near-Field Infrared Pump-Probe Imaging of Surface Phonon Coupling in Boron Nitride Nanotubes. <i>Journal of Physical Chemistry Letters</i> , 2016 , 7, 289-94	6.4	19
607	Template-free synthesis of boron nitride foam-like porous monoliths and their high-end applications in water purification. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 1469-1478	13	95
606	h-BN nanosheets as simple and effective additives to largely enhance the activity of Au/TiO ₂ plasmonic photocatalysts. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 79-83	3.6	19

605	Boron nitride nanotubes as drug carriers 2016 , 79-94		4
604	HighPerformance Solar-Blind Deep Ultraviolet Photodetector Based on Individual Single-Crystalline Zn ₂ GeO ₄ Nanowire. <i>Advanced Functional Materials</i> , 2016 , 26, 704-712	15.6	136
603	Boron nitride nanotube-enhanced osteogenic differentiation of mesenchymal stem cells. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2016 , 104, 323-9	3.5	39
602	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	0.5	
601	In situ fabrication and investigation of nanostructures and nanodevices with a microscope. <i>Chemical Society Reviews</i> , 2016 , 45, 2694-713	58.5	28
600	Nanostructured polymeric yolk-shell capsules: a versatile tool for hierarchical nanocatalyst design. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 9850-9857	13	11
599	Hybrid two-dimensional materials in rechargeable battery applications and their microscopic mechanisms. <i>Chemical Society Reviews</i> , 2016 , 45, 4042-73	58.5	157
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