

Sarbajit Banerjee

List of Publications by Year in descending order

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239
papers

10,190
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26610

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times ranked

12780
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#	ARTICLE	IF	CITATIONS
1	Photopolymerized superhydrophobic hybrid coating enabled by dual-purpose tetrapodal ZnO for liquid/liquid separation. <i>Materials Horizons</i> , 2022, 9, 452-461.	6.4	12
2	Probing Relaxation Dynamics and Stepped Domain Switching in Boron-Alloyed VO ₂ . <i>Advanced Electronic Materials</i> , 2022, 8, 2100932.	2.6	5
3	Effect of crystallite geometries on electrochemical performance of porous intercalation electrodes by multiscale operando investigation. <i>Nature Materials</i> , 2022, 21, 217-227.	13.3	35
4	Topochemical stabilization and single-crystal transformations of a metastable 2D V^{2+} -VO ₅ intercalation cathode. <i>Cell Reports Physical Science</i> , 2022, 3, 100712.	2.8	5
5	Cation reordering instead of phase transitions: Origins and implications of contrasting lithiation mechanisms in 1D V^{2+} - and 2D V^{2+} -VO ₅ . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .	3.3	11
6	Lone but Not Alone: Precise Positioning of Lone Pairs for the Design of Photocatalytic Architectures. <i>Chemistry of Materials</i> , 2022, 34, 1439-1458.	3.2	12
7	A Materials Science Perspective of Midstream Challenges in the Utilization of Heavy Crude Oil. <i>ACS Omega</i> , 2022, 7, 1547-1574.	1.6	14
8	Near-Ambient Nanocomposite Thermo-chromic Fenestration Elements from Post-Encapsulation-Annealed Tungsten-Alloyed Vanadium(IV) Oxide Nanocrystals. <i>ACS Applied Energy Materials</i> , 2022, 5, 4829-4839.	2.5	4
9	Multiscale Textured Mesh Substrates that Glide Alcohol Droplets and Impede Ice Nucleation. <i>Advanced Engineering Materials</i> , 2022, 24, .	1.6	1
10	Chemical transformations of extraterrestrial soils. <i>Trends in Chemistry</i> , 2022, 4, 260-263.	4.4	3
11	Inverse emulsion-crosslinked cyclodextrin polymer nanoparticles for selective adsorption and chemiresistive sensing of BTEX. <i>Materials Today Chemistry</i> , 2022, 24, 100915.	1.7	1
12	Grid nanoindentation on calcium sulfoaluminate (CSA)-Kaolinite pastes. <i>Construction and Building Materials</i> , 2022, 335, 127523.	3.2	0
13	Decoupling the metal-insulator transition temperature and hysteresis of VO ₂ using Ge alloying and oxygen vacancies. <i>Chemical Communications</i> , 2022, 58, 6586-6589.	2.2	6
14	A deep learned nanowire segmentation model using synthetic data augmentation. <i>Npj Computational Materials</i> , 2022, 8, .	3.5	11
15	A Li^{+} -View of Diffusion Pathways in a 2D Intercalation Material from Topochemical Single-Crystal Transformation. <i>ACS Energy Letters</i> , 2022, 7, 1960-1962.	8.8	4
16	Thermodynamics of Wettability: A Physical Chemistry Laboratory Experiment. <i>Journal of Chemical Education</i> , 2022, 99, 2689-2696.	1.1	2
17	Building Back Better: Lessons Learned from Sichuan Earthquake on Decarbonizing China's Construction Industry through Microalloying. <i>Matter</i> , 2021, 4, 4-9.	5.0	2
18	Design, synthesis and characterization of fused bithiazole- and dithiophene-based low bandgap thienylenevinylene copolymers. <i>Polymer Chemistry</i> , 2021, 12, 5942-5951.	1.9	6

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19	Solution-processable porous graphitic carbon from bottom-up synthesis and low-temperature graphitization. <i>Chemical Science</i> , 2021, 12, 8438-8444.	3.7	19
20	Punching above its weight: life cycle energy accounting and environmental assessment of vanadium microalloying in reinforcement bar steel. <i>Environmental Sciences: Processes and Impacts</i> , 2021, 23, 275-290.	1.7	7
21	Alkoxy functionalized benzothiadiazole based donor-acceptor conjugated copolymers for organic field-effect transistors. <i>Journal of Materials Chemistry C</i> , 2021, 9, 5113-5123.	2.7	22
22	Electronic structure modulation of MoS ₂ by substitutional Se incorporation and interfacial MoO ₃ hybridization: Implications of Fermi engineering for electrocatalytic hydrogen evolution and oxygen evolution. <i>Chemical Physics Reviews</i> , 2021, 2, .	2.6	8
23	Asphaltene Microencapsulation of Bitumen as a Means of Solid-Phase Transport. <i>Energy & Fuels</i> , 2021, 35, 6576-6584.	2.5	3
24	Halide Replacement with Complete Preservation of Crystal Lattice in Mixed-Anion Lanthanide Oxyhalides. <i>Angewandte Chemie</i> , 2021, 133, 15710-15717.	1.6	1
25	Halide Replacement with Complete Preservation of Crystal Lattice in Mixed-Anion Lanthanide Oxyhalides. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 15582-15589.	7.2	11
26	Negative Thermal Expansion HfV ₂ O ₇ Nanostructures for Alleviation of Thermal Stress in Nanocomposite Coatings. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 44723-44732.	4.0	7
27	Lessons learned from FeSb ₂ O ₄ on stereoactive lone pairs as a design principle for anion insertion. <i>Cell Reports Physical Science</i> , 2021, 2, 100592.	2.8	3
28	Powder bed coating of bitumen with asphaltenes to obtain solid prills for midstream transportation. <i>Fuel</i> , 2021, 302, 121093.	3.4	4
29	A chemo-mechanical damage model at large deformation: numerical and experimental studies on polycrystalline energy materials. <i>International Journal of Solids and Structures</i> , 2021, 228, 111099.	1.3	20
30	Elucidating the Role of Dissolved Organic Matter and Sunlight in Mediating the Formation of Ag-Au Bimetallic Alloy Nanoparticles in the Aquatic Environment. <i>Environmental Science & Technology</i> , 2021, 55, 1710-1720.	4.6	11
31	Assessing the role of vanadium technologies in decarbonizing hard-to-abate sectors and enabling the energy transition. <i>IScience</i> , 2021, 24, 103277.	1.9	12
32	Structure-Dependent Accessibility of Phonon-Coupled Radiative Relaxation Pathways Probed by X-ray-Excited Optical Luminescence. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 11170-11175.	2.1	0
33	Mapping mechanisms and growth regimes of magnesium electrodeposition at high current densities. <i>Materials Horizons</i> , 2020, 7, 843-854.	6.4	77
34	Curvature-Induced Modification of Mechano-Electrochemical Coupling and Nucleation Kinetics in a Cathode Material. <i>Matter</i> , 2020, 3, 1754-1773.	5.0	18
35	Does Water Enhance Mg Intercalation in Oxides? The Case of a Tunnel Framework. <i>ACS Energy Letters</i> , 2020, 5, 3357-3361.	8.8	13
36	An Atomic View of Cation Diffusion Pathways from Single-Crystal Topochemical Transformations. <i>Angewandte Chemie</i> , 2020, 132, 16527-16534.	1.6	3

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37	Toward High-Precision Control of Transformation Characteristics in VO ₂ through Dopant Modulation of Hysteresis. <i>Journal of Physical Chemistry C</i> , 2020, 124, 21223-21231.	1.5	16
38	Frontiers in hybrid and interfacial materials chemistry research. <i>MRS Bulletin</i> , 2020, 45, 951-964.	1.7	6
39	Lattice Anharmonicity of Stereochemically Active Lone Pairs Controls Thermo-chromic Band Gap Reduction of PbVO ₃ Cl. <i>Chemistry of Materials</i> , 2020, 32, 7404-7412.	3.2	15
40	Navigating the design space of inorganic materials synthesis using statistical methods and machine learning. <i>Dalton Transactions</i> , 2020, 49, 11480-11488.	1.6	24
41	Atomic Hourglass and Thermometer Based on Diffusion of a Mobile Dopant in VO ₂ . <i>Journal of the American Chemical Society</i> , 2020, 142, 15513-15526.	6.6	23
42	Elucidating the Mechanistic Origins of Photocatalytic Hydrogen Evolution Mediated by MoS ₂ /CdS Quantum-Dot Heterostructures. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 43728-43740.	4.0	42
43	Cyclodextrin-derived polymer networks for selective molecular adsorption. <i>Chemical Communications</i> , 2020, 56, 11783-11786.	2.2	13
44	Three-Dimensional Inverse Opal TiO ₂ Coatings to Enable the Gliding of Viscous Oils. <i>Energy & Fuels</i> , 2020, 34, 13606-13613.	2.5	5
45	Celebrating 5 Years of Open Access with <i>ACS Omega</i> . <i>ACS Omega</i> , 2020, 5, 16986-16986.	1.6	2
46	Bending good beats breaking bad: phase separation patterns in individual cathode particles upon lithiation and delithiation. <i>Materials Horizons</i> , 2020, 7, 3275-3290.	6.4	14
47	Enhanced charge storage of nanometric V ₂ O ₅ in Mg electrolytes. <i>Nanoscale</i> , 2020, 12, 22150-22160.	2.8	15
48	An Atomic View of Cation Diffusion Pathways from Single-Crystal Topochemical Transformations. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 16385-16392.	7.2	20
49	Designing catalysts for water splitting based on electronic structure considerations. <i>Electronic Structure</i> , 2020, 2, 023001.	1.0	43
50	Reversible Room-Temperature Fluoride-Ion Insertion in a Tunnel-Structured Transition Metal Oxide Host. <i>ACS Energy Letters</i> , 2020, 5, 2520-2526.	8.8	13
51	Electrical vapour sensing with macrocyclic molecular receptors. <i>Supramolecular Chemistry</i> , 2020, 32, 165-177.	1.5	7
52	Metal-Insulator Transitions in V ₂ O ₅ Mediated by Polaron Oscillation and Cation Shuttling. <i>Matter</i> , 2020, 2, 1166-1186.	5.0	9
53	In situ Resource Utilization and Reconfiguration of Soils Into Construction Materials for the Additive Manufacturing of Buildings. <i>Frontiers in Materials</i> , 2020, 7, .	1.2	26
54	Hierarchically Textured Oleophobic Internal Coatings that Facilitate Drag Reduction of Viscous Oils in Macroscopic Laminar Flow. <i>Advanced Engineering Materials</i> , 2020, 22, 2000333.	1.6	6

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55	Optical modulation in hybrid antiresonant hollow-core fiber infiltrated with vanadium dioxide phase change nanocrystals. <i>Optics Letters</i> , 2020, 45, 4240.	1.7	5
56	Chemically inert covalently networked triazole-based solid polymer electrolytes for stable all-solid-state lithium batteries. <i>Journal of Materials Chemistry A</i> , 2019, 7, 19691-19695.	5.2	17
57	Chemo-mechanical degradation in V_2O_5 thin film cathodes of Li-ion batteries during electrochemical cycling. <i>Journal of Materials Chemistry A</i> , 2019, 7, 23922-23930.	5.2	24
58	Energy Spotlight. <i>ACS Energy Letters</i> , 2019, 4, 2763-2769.	8.8	1
59	Building Brain-Inspired Logic Circuits from Dynamically Switchable Transition-Metal Oxides. <i>Trends in Chemistry</i> , 2019, 1, 711-726.	4.4	39
60	Functionalized Tetrapodal ZnO Membranes Exhibiting Superoleophobic and Superhydrophilic Character for Water/Oil Separation Based on Differential Wettability. <i>Energy & Fuels</i> , 2019, 33, 5024-5034.	2.5	21
61	Tortuosity but Not Percolation: Design of Exfoliated Graphite Nanocomposite Coatings for Extended Corrosion Protection of Aluminum Alloys. <i>ACS Applied Nano Materials</i> , 2019, 2, 3100-3116.	2.4	27
62	Machine Learning-Directed Navigation of Synthetic Design Space: A Statistical Learning Approach to Controlling the Synthesis of Perovskite Halide Nanoplatelets in the Quantum-Confined Regime. <i>Chemistry of Materials</i> , 2019, 31, 3281-3292.	3.2	40
63	Magnesium Nanocomposite Coatings for Protection of a Lightweight Al Alloy: Modes of Corrosion Protection, Mechanisms of Failure. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2019, 216, 1800817.	0.8	6
64	An evaluation of the reduction of heat loss enabled by halloysite modification of oilwell cement. <i>Engineering Research Express</i> , 2019, 1, 025028.	0.8	7
65	Type-II heterostructures of V_2O_5 nanowires interfaced with cadmium chalcogenide quantum dots: Programmable energetic offsets, ultrafast charge transfer, and photocatalytic hydrogen evolution. <i>Journal of Chemical Physics</i> , 2019, 151, 224702.	1.2	6
66	Epitaxial stabilization versus interdiffusion: synthetic routes to metastable cubic HfO_2 and HfV_2O_7 from the core-shell arrangement of precursors. <i>Nanoscale</i> , 2019, 11, 21354-21363.	2.8	5
67	Effectiveness of zinc oxide-assisted photocatalysis for concerned constituents in reclaimed wastewater: 1,4-Dioxane, trihalomethanes, antibiotics, antibiotic resistant bacteria (ARB), and antibiotic resistance genes (ARGs). <i>Science of the Total Environment</i> , 2019, 649, 1189-1197.	3.9	64
68	A full palette: Crystal chemistry, polymorphism, synthetic strategies, and functional applications of lanthanide oxyhalides. <i>Journal of Solid State Chemistry</i> , 2019, 270, 569-592.	1.4	23
69	Formation of Magnesium Dendrites during Electrodeposition. <i>ACS Energy Letters</i> , 2019, 4, 375-376.	8.8	221
70	The Middle Road Less Taken: Electronic-Structure-Inspired Design of Hybrid Photocatalytic Platforms for Solar Fuel Generation. <i>Accounts of Chemical Research</i> , 2019, 52, 645-655.	7.6	29
71	In-situ measurements of stress evolution in composite sulfur cathodes. <i>Energy Storage Materials</i> , 2019, 16, 491-497.	9.5	26
72	Separation of Viscous Oil Emulsions Using Three-Dimensional Nanotetrapodal ZnO Membranes. <i>Energy & Fuels</i> , 2018, 32, 4894-4902.	2.5	12

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73	Striping modulations and strain gradients within individual particles of a cathode material upon lithiation. <i>Materials Horizons</i> , 2018, 5, 486-498.	6.4	17
74	Mapping Catalytically Relevant Edge Electronic States of MoS ₂ . <i>ACS Central Science</i> , 2018, 4, 493-503.	5.3	39
75	Stabilization of a Metastable Tunnel-Structured Orthorhombic Phase of VO ₂ upon Iridium Doping. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2018, 215, 1700884.	0.8	7
76	Reversible Mg-Ion Insertion in a Metastable One-Dimensional Polymorph of V ₂ O ₅ . <i>CheM</i> , 2018, 4, 564-585.	5.8	126
77	Strain and Bond Length Dynamics upon Growth and Transfer of Graphene by NEXAFS Spectroscopy from First-Principles and Experiment. <i>Langmuir</i> , 2018, 34, 1783-1794.	1.6	11
78	Defining Diffusion Pathways in Intercalation Cathode Materials: Some Lessons from V ₂ O ₅ on Directing Cation Traffic. <i>ACS Energy Letters</i> , 2018, 3, 915-931.	8.8	79
79	Modulating the Hysteresis of an Electronic Transition: Launching Alternative Transformation Pathways in the Metal-Insulator Transition of Vanadium(IV) Oxide. <i>Chemistry of Materials</i> , 2018, 30, 214-224.	3.2	20
80	Incorporation of Hydroxyethylcellulose-Functionalized Halloysite as a Means of Decreasing the Thermal Conductivity of Oilwell Cement. <i>Scientific Reports</i> , 2018, 8, 16149.	1.6	17
81	It's Not Over until the Big Ion Dances: Potassium Gets Its Groove On. <i>Joule</i> , 2018, 2, 2194-2197.	11.7	12
82	Elucidating the Crystallite Size Dependence of the Thermochromic Properties of Nanocomposite VO ₂ Thin Films. <i>ACS Omega</i> , 2018, 3, 14280-14293.	1.6	14
83	Hole Extraction by Design in Photocatalytic Architectures Interfacing CdSe Quantum Dots with Topochemically Stabilized Tin Vanadium Oxide. <i>Journal of the American Chemical Society</i> , 2018, 140, 17163-17174.	6.6	33
84	Photodegradation of fluorotelomer carboxylic 5:3 acid and perfluorooctanoic acid using zinc oxide. <i>Environmental Pollution</i> , 2018, 243, 637-644.	3.7	20
85	Stabilization of a Metastable Tunnel-Structured Orthorhombic Phase of VO ₂ upon Iridium Doping (<i>Phys. Status Solidi A</i> 16 th 2018). <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2018, 215, 1870039.	0.8	0
86	Ligand-Mediated Control of Dopant Oxidation State and X-ray Excited Optical Luminescence in Eu-Doped LaOCl. <i>Inorganic Chemistry</i> , 2018, 57, 5842-5849.	1.9	15
87	Ligand-Directed Stabilization of Ternary Phases: Synthetic Control of Structural Dimensionality in Solution-Grown Cesium Lead Bromide Nanocrystals. <i>Chemistry of Materials</i> , 2018, 30, 6144-6155.	3.2	39
88	In a Different Light: Deciphering Optical and X-ray Sensitization Mechanisms in an Expanded Palette of LaOCl Phosphors. <i>Journal of Physical Chemistry C</i> , 2018, 122, 16412-16423.	1.5	11
89	Traversing Energy Landscapes Away from Equilibrium: Strategies for Accessing and Utilizing Metastable Phase Space. <i>Journal of Physical Chemistry C</i> , 2018, 122, 25709-25728.	1.5	75
90	Roadblocks in Cation Diffusion Pathways: Implications of Phase Boundaries for Li-Ion Diffusivity in an Intercalation Cathode Material. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 30901-30911.	4.0	19

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91	Stabilization of Ag@Au Bimetallic Nanocrystals in Aquatic Environments Mediated by Dissolved Organic Matter: A Mechanistic Perspective. <i>Environmental Science & Technology</i> , 2018, 52, 7269-7278.	4.6	19
92	Nucleation-controlled hysteresis in unstrained hydrothermal VO_2 particles. <i>Physical Review Materials</i> , 2018, 2, .	0.9	10
93	Orthogonal Wettability of Hierarchically Textured Metal Meshes as a Means of Separating Water/Oil Emulsions. <i>Advanced Engineering Materials</i> , 2017, 19, 1600808.	1.6	27
94	Mapping the electrocatalytic activity of MoS_2 across its amorphous to crystalline transition. <i>Journal of Materials Chemistry A</i> , 2017, 5, 5129-5141.	5.2	41
95	Fabrication and Electrochemical Performance of Structured Mesoscale Open Shell VO_2 Networks. <i>Langmuir</i> , 2017, 33, 5975-5981.	1.6	11
96	Real-time atomistic observation of structural phase transformations in individual hafnia nanorods. <i>Nature Communications</i> , 2017, 8, 15316.	5.8	59
97	Postsynthetic Route for Modifying the Metal-Insulator Transition of VO_2 by Interstitial Dopant Incorporation. <i>Chemistry of Materials</i> , 2017, 29, 5401-5412.	3.2	36
98	Intercalation-Induced Exfoliation and Thickness-Modulated Electronic Structure of a Layered Ternary Vanadium Oxide. <i>Chemistry of Materials</i> , 2017, 29, 3285-3294.	3.2	19
99	Direct evidence of M_2 phase during the monoclinic-tetragonal (rutile) phase transition of W-doped VO_2 nanowires. <i>Applied Physics Letters</i> , 2017, 110, .	1.5	11
100	Looking Outwards from the "Central Science": An Interdisciplinary Perspective on Graduate Education in Materials Chemistry. <i>ACS Symposium Series</i> , 2017, , 65-89.	0.5	3
101	Hybrid Nanocomposite Films Comprising Dispersed VO_2 Nanocrystals: A Scalable Aqueous-Phase Route to Thermochromic Fenestration. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 38887-38900.	4.0	30
102	The electronic structure of $\mu\text{-V}_2\text{O}_5$: an expanded band gap in a double-layered polymorph with increased interlayer separation. <i>Journal of Materials Chemistry A</i> , 2017, 5, 23694-23703.	5.2	10
103	Memristive response of a new class of hydrated vanadium oxide intercalation compounds. <i>MRS Communications</i> , 2017, 7, 634-641.	0.8	7
104	Biomimetic Plastronic Surfaces for Handling of Viscous Oil. <i>Energy & Fuels</i> , 2017, 31, 9337-9344.	2.5	16
105	Modeling of phase separation across interconnected electrode particles in lithium-ion batteries. <i>RSC Advances</i> , 2017, 7, 41254-41264.	1.7	24
106	Lithiation across interconnected VO_2 nanoparticle networks. <i>Journal of Materials Chemistry A</i> , 2017, 5, 20141-20152.	5.2	26
107	X-ray Spectroscopy and Imaging as Multiscale Probes of Intercalation Phenomena in Cathode Materials. <i>Jom</i> , 2017, 69, 1469-1477.	0.9	10
108	Influence of ligand shell ordering on dimensional confinement of cesium lead bromide (CsPbBr_3) perovskite nanoplatelets. <i>Journal of Materials Chemistry C</i> , 2017, 5, 8810-8818.	2.7	66

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109	Mitigating Cation Diffusion Limitations and Intercalation-Induced Framework Transitions in a 1D Tunnel-Structured Polymorph of V_2O_5 . Chemistry of Materials, 2017, 29, 10386-10397.	3.2	24
110	Evaluation of Multivalent Cation Insertion in Single- and Double-Layered Polymorphs of V_2O_5 . ACS Applied Materials & Interfaces, 2017, 9, 23756-23765.	4.0	64
111	Structure-Induced Switching of the Band Gap, Charge Order, and Correlation Strength in Ternary Vanadium Oxide Bronzes. Chemistry - A European Journal, 2017, 23, 9846-9856.	1.7	3
112	Monitoring Deformation in Graphene Through Hyperspectral Synchrotron Spectroscopy to Inform Fabrication. Journal of Physical Chemistry C, 2017, 121, 15653-15664.	1.5	3
113	Direct Observation of Hafnia Structural Phase Transformations. Microscopy and Microanalysis, 2017, 23, 2092-2093.	0.2	0
114	Building on Sub-Arctic Soil: Geopolymerization of Muskeg to a Densified Load-Bearing Composite. Scientific Reports, 2017, 7, 14711.	1.6	9
115	Aberration corrected STEM and High Resolution EELS study Investigating Magnesium Intercalation in Vanadium Pentoxide Cathode. Microscopy and Microanalysis, 2016, 22, 1318-1319.	0.2	0
116	In situ cooling and heating study of VO_2 phase transition. Microscopy and Microanalysis, 2016, 22, 816-817.	0.2	0
117	Atomic Resolution Studies of W Dopants Effect on the Phase Transformation of VO_2 . Microscopy and Microanalysis, 2016, 22, 884-885.	0.2	1
118	Programming Interfacial Energetic Offsets and Charge Transfer in $\text{Pb}_{0.33}V_2O_5$ /Quantum-Dot Heterostructures: Tuning Valence-Band Edges to Overlap with Midgap States. Journal of Physical Chemistry C, 2016, 120, 28992-29001.	1.5	11
119	Stabilizing metastable tetragonal HfO_2 using a non-hydrolytic solution-phase route: ligand exchange as a means of controlling particle size. Chemical Science, 2016, 7, 4930-4939.	3.7	29
120	An in Situ Sulfidation Approach for the Integration of MoS_2 Nanosheets on Carbon Fiber Paper and the Modulation of Its Electrocatalytic Activity by Interfacing with nC_{60} . ACS Catalysis, 2016, 6, 6246-6254.	5.5	60
121	Mechanistic Evaluation of Li_xO_y Formation on MnO_2 in Nonaqueous Li-Air Batteries. ACS Applied Materials & Interfaces, 2016, 8, 23028-23036.	4.0	46
122	Ligand-Mediated Modulation of Layer Thicknesses of Perovskite Methylammonium Lead Bromide Nanoplatelets. Chemistry of Materials, 2016, 28, 6909-6916.	3.2	89
123	Topochemically De-Intercalated Phases of V_2O_5 as Cathode Materials for Multivalent Intercalation Batteries: A First-Principles Evaluation. Chemistry of Materials, 2016, 28, 5611-5620.	3.2	84
124	Selective electrochemical reactivity of rutile VO_2 the suppression of metal-insulator transition. Physical Review B, 2016, 93, .		
125	Graphene Coatings for the Corrosion Protection of Base Metals. , 2016, , 155-176.		1
126	Vanadium K-Edge X-ray Absorption Spectroscopy as a Probe of the Heterogeneous Lithiation of V_2O_5 : First-Principles Modeling and Principal Component Analysis. Journal of Physical Chemistry C, 2016, 120, 23922-23932.	1.5	52

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127	Mapping polaronic states and lithiation gradients in individual V ₂ O ₅ nanowires. Nature Communications, 2016, 7, 12022.	5.8	115
128	Contrasting 1D tunnel-structured and 2D layered polymorphs of V ₂ O ₅ : relating crystal structure and bonding to band gaps and electronic structure. Physical Chemistry Chemical Physics, 2016, 18, 15798-15806.	1.3	32
129	Directional Charge Transfer Mediated by Mid-Gap States: A Transient Absorption Spectroscopy Study of CdSe Quantum Dot/ ¹² Pb _{0.33} V ₂ O ₅ Heterostructures. Journal of Physical Chemistry C, 2016, 120, 5221-5232.	1.5	25
130	X-ray excited photoluminescence near the giant resonance in solid-solution Gd _{1-x} Tb _x OCl nanocrystals and their retention upon solvothermal topotactic transformation to Gd _{1-x} Tb _x F ₃ . Nanoscale, 2016, 8, 979-986.	2.8	15
131	Proliferation of metallic domains caused by inhomogeneous heating near the electrically driven transition in VO_2 . Physical Review B, 2015, 92, .	1.1	13
132	Separating electric field and thermal effects across the metal-insulator transition in vanadium oxide nanobeams. Applied Physics Letters, 2015, 107, .	1.5	19
133	Determination of Free Electron Density in Sequentially Doped In _x Ga _{1-x} As by Raman Spectroscopy. Applied Spectroscopy, 2015, 69, 239-242.	1.2	3
134	Atomic Layer Deposition of Hafnium(IV) Oxide on Graphene Oxide: Probing Interfacial Chemistry and Nucleation by using X-ray Absorption and Photoelectron Spectroscopies. ChemPhysChem, 2015, 16, 2842-2848.	1.0	7
135	Transformers: the changing phases of low-dimensional vanadium oxide bronzes. Chemical Communications, 2015, 51, 5181-5198.	2.2	75
136	Hybrid nanostructured coatings for corrosion protection of base metals: a sustainability perspective. Materials Research Express, 2015, 2, 032001.	0.8	62
137	Charge density waves in individual nanoribbons of orthorhombic-TaS ₃ . Physical Chemistry Chemical Physics, 2015, 17, 18374-18379.	1.3	6
138	Potential application of tip-enhanced Raman spectroscopy (TERS) in semiconductor manufacturing. , 2015, , .		2
139	Integrating ¹² Pb _{0.33} V ₂ O ₅ Nanowires with CdSe Quantum Dots: Toward Nanoscale Heterostructures with Tunable Interfacial Energetic Offsets for Charge Transfer. Chemistry of Materials, 2015, 27, 2468-2479.	3.2	20
140	Two-Dimensional Graphene as a Matrix for MALDI Imaging Mass Spectrometry. Journal of the American Society for Mass Spectrometry, 2015, 26, 1963-1966.	1.2	24
141	Atomic Origins of Monoclinic-Tetragonal (Rutile) Phase Transition in Doped VO ₂ Nanowires. Nano Letters, 2015, 15, 7179-7188.	4.5	52
142	Emptying and filling a tunnel bronze. Chemical Science, 2015, 6, 1712-1718.	3.7	42
143	Ligand-Mediated Control of Dislocation Dynamics and Resulting Particle Morphology of GdOCl Nanocrystals. Small, 2015, 11, 329-334.	5.2	20
144	Microwave-induced nucleation of conducting graphitic domains on silicon carbide surfaces. Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics, 2014, 32, 011215.	0.6	3

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