

Paul Braun

List of Publications by Year in descending order

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214
papers

17,142
citations

18482

62
h-index

15266

126
g-index

229
all docs

229
docs citations

229
times ranked

22006
citing authors

#	ARTICLE	IF	CITATIONS
1	A Lamellar Yolk-Shell Lithium-Sulfur Battery Cathode Displaying Ultralong Cycling Life, High Rate Performance, and Temperature Tolerance. <i>Advanced Science</i> , 2022, 9, e2103517.	11.2	20
2	Biomimetic and Biologically Compliant Soft Architectures via 3D and 4D Assembly Methods: A Perspective. <i>Advanced Materials</i> , 2022, 34, e2108391.	21.0	34
3	A Lipid-Inspired Highly Adhesive Interface for Durable Superhydrophobicity in Wet Environments and Stable Jumping Droplet Condensation. <i>ACS Nano</i> , 2022, 16, 4251-4262.	14.6	21
4	High-Performance Packaged 3D Lithium-Ion Microbatteries Fabricated Using Imprint Lithography. <i>Advanced Materials</i> , 2021, 33, e2006229.	21.0	43
5	Gradient Index Subsurface Micro-Optics. , 2021, , .		1
6	3D periodic polyimide nano-networks for ultrahigh-rate and sustainable energy storage. <i>Energy and Environmental Science</i> , 2021, 14, 5894-5902.	30.8	26
7	Improved synthesis of $Ti_{3-x}C_{2-x}T_x$ MXenes resulting in exceptional electrical conductivity, high synthesis yield, and enhanced capacitance. <i>Nanoscale</i> , 2021, 13, 3572-3580.	5.6	228
8	Ultralow Thermal Conductivity in Nanoporous Crystalline Fe_3O_4 . <i>Journal of Physical Chemistry C</i> , 2021, 125, 6897-6908.	3.1	12
9	Direct and Divergent Solid-Phase Synthesis of Azobenzene and Spiropyran Derivatives. <i>Journal of Organic Chemistry</i> , 2021, 86, 4391-4397.	3.2	5
10	High Energy Density and Stable Three-Dimensionally Structured Se-Loaded Bicontinuous Porous Carbon Battery Electrodes. <i>Energy Technology</i> , 2021, 9, 2100175.	3.8	4
11	Measuring Molecular Diffusion Through Thin Polymer Films with Dual-Band Plasmonic Antennas. <i>ACS Nano</i> , 2021, 15, 10393-10405.	14.6	6
12	Electrodeposition of atmosphere-sensitive ternary sodium transition metal oxide films for sodium-based electrochemical energy storage. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	9
13	Revealing the role of the cathode-electrolyte interface on solid-state batteries. <i>Nature Materials</i> , 2021, 20, 1392-1400.	27.5	106
14	Phase Change Material Heat Sink for Transient Cooling of High-Power Devices. <i>International Journal of Heat and Mass Transfer</i> , 2021, 170, 121033.	4.8	30
15	Good Solid-State Electrolytes Have Low, Glass-Like Thermal Conductivity. <i>Small</i> , 2021, 17, e2101693.	10.0	23
16	A Nearly Packaging-Free Design Paradigm for Light, Powerful, and Energy-Dense Primary Microbatteries. <i>Advanced Materials</i> , 2021, 33, e2101760.	21.0	17
17	Three-dimensional mesostructured binder-free nickel-based TiO_2/RGO lithium-ion battery negative electrodes with enhanced volumetric capacity. <i>Ceramics International</i> , 2021, 47, 21381-21387.	4.8	6
18	Toward the realization of subsurface volumetric integrated optical systems. <i>Applied Physics Letters</i> , 2021, 119, .	3.3	5

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19	A Nearly Packaging-Free Design Paradigm for Light, Powerful, and Energy-Dense Primary Microbatteries (Adv. Mater. 35/2021). Advanced Materials, 2021, 33, 2170275.	21.0	0
20	Linear and nonlinear viscoelasticity of concentrated thermoresponsive microgel suspensions. Journal of Colloid and Interface Science, 2021, 601, 886-898.	9.4	12
21	Photochemistry democratizes 3D nanoprinting. Nature Photonics, 2021, 15, 871-873.	31.4	2
22	Fiber Electrodes Mesostructured on Carbon Fibers for Energy Storage. ACS Applied Energy Materials, 2021, 4, 13716-13724.	5.1	5
23	Soft, skin-interfaced microfluidic systems with integrated enzymatic assays for measuring the concentration of ammonia and ethanol in sweat. Lab on A Chip, 2020, 20, 84-92.	6.0	67
24	Enhanced Electrical and Mechanical Properties of Chemically Cross-Linked Carbon-Nanotube-Based Fibers and Their Application in High-Performance Supercapacitors. ACS Nano, 2020, 14, 632-639.	14.6	44
25	Mechanical Deformation-Assisted Fabrication of Plasmonic Nanobowties with Broken Symmetry and Tunable Gaps. Particle and Particle Systems Characterization, 2020, 37, 1900463.	2.3	5
26	Functional materials and devices by self-assembly. MRS Bulletin, 2020, 45, 799-806.	3.5	27
27	Direct laser writing of volumetric gradient index lenses and waveguides. Light: Science and Applications, 2020, 9, 196.	16.6	66
28	Autonomic Molecular Transport for Ultrasensitive Surface-Enhanced Infrared Absorption Spectroscopy. ACS Applied Polymer Materials, 2020, 2, 3929-3935.	4.4	5
29	Polymer Composites Containing Phase-Change Microcapsules Displaying Deep Undercooling Exhibit Thermal History-Dependent Mechanical Properties. Advanced Materials Technologies, 2020, 5, 2000286.	5.8	14
30	Soft, skin-interfaced microfluidic systems with integrated immunoassays, fluorometric sensors, and impedance measurement capabilities. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 27906-27915.	7.1	84
31	Microcapsules: Polymer Composites Containing Phase-Change Microcapsules Displaying Deep Undercooling Exhibit Thermal History-Dependent Mechanical Properties (Adv. Mater. Technol. 10/2020). Advanced Materials Technologies, 2020, 5, 2070062.	5.8	1
32	Exploiting Nonlinear Elasticity for Anomalous Magneto-responsive Stiffening. ACS Macro Letters, 2020, 9, 1632-1637.	4.8	2
33	Real-Time Measurement of Polymer Brush Dynamics Using Silicon Photonic Microring Resonators: Analyte Partitioning and Interior Brush Kinetics. Langmuir, 2020, 36, 10351-10360.	3.5	6
34	Kirigami-Inspired Self-Assembly of 3D Structures. Advanced Functional Materials, 2020, 30, 1909888.	14.9	28
35	A composite phase change material thermal buffer based on porous metal foam and low-melting-temperature metal alloy. Applied Physics Letters, 2020, 116, .	3.3	31
36	Archimedean lattices emerge in template-directed eutectic solidification. Nature, 2020, 577, 355-358.	27.8	21

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37	Monolithic tesla-level magnetic induction by self-rolled-up membrane technology. <i>Science Advances</i> , 2020, 6, eaay4508.	10.3	35
38	Force-Modulated Equilibria of Mechanophore-Embedded Metal Coordinate Bonds. <i>Chemistry of Materials</i> , 2020, 32, 3869-3878.	6.7	12
39	Optically anisotropic porous silicon microlenses with tunable refractive indexes and birefringence profiles. <i>Optical Materials Express</i> , 2020, 10, 868.	3.0	10
40	Innenteilbild: Selective Autonomous Molecular Transport and Collection by Hydrogel-Embedded Supramolecular Chemical Gradients (<i>Angew. Chem.</i> 50/2019). <i>Angewandte Chemie</i> , 2019, 131, 18046-18046.	2.0	0
41	Carbon-Free, High-Capacity and Long Cycle Life 1D-2D NiMoO ₄ Nanowires/Metallic 1T MoS ₂ Composite Lithium-Ion Battery Anodes. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 44593-44600.	8.0	14
42	Selective Autonomous Molecular Transport and Collection by Hydrogel-Embedded Supramolecular Chemical Gradients. <i>Angewandte Chemie</i> , 2019, 131, 18333-18338.	2.0	6
43	Selective Autonomous Molecular Transport and Collection by Hydrogel-Embedded Supramolecular Chemical Gradients. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 18165-18170.	13.8	9
44	An Integrated Liquid Metal Thermal Switch for Active Thermal Management of Electronics. <i>IEEE Transactions on Components, Packaging and Manufacturing Technology</i> , 2019, 9, 2341-2351.	2.5	28
45	Linear and nonlinear rheology and structural relaxation in dense glassy and jammed soft repulsive pNIPAM microgel suspensions. <i>Soft Matter</i> , 2019, 15, 1038-1052.	2.7	44
46	High strength metallic wood from nanostructured nickel inverse opal materials. <i>Scientific Reports</i> , 2019, 9, 719.	3.3	36
47	Acid-Triggered, Acid-Generating, and Self-Amplifying Degradable Polymers. <i>Journal of the American Chemical Society</i> , 2019, 141, 2838-2842.	13.7	43
48	Modulating Noncovalent Cross-links with Molecular Switches. <i>Journal of the American Chemical Society</i> , 2019, 141, 3597-3604.	13.7	28
49	Effects of Particle Size on Mg ²⁺ Ion Intercalation into Î»-MnO ₂ Cathode Materials. <i>Nano Letters</i> , 2019, 19, 4712-4720.	9.1	41
50	Metallic 1T phase MoS ₂ /MnO composites with improved cyclability for lithium-ion battery anodes. <i>Journal of Alloys and Compounds</i> , 2019, 796, 25-32.	5.5	22
51	Conductivity and lithiophilicity gradients guide lithium deposition to mitigate short circuits. <i>Nature Communications</i> , 2019, 10, 1896.	12.8	256
52	Reversible Conversion Reactions and Small First Cycle Irreversible Capacity Loss in Metal Sulfide-Based Electrodes Enabled by Solid Electrolytes. <i>Advanced Functional Materials</i> , 2019, 29, 1901719.	14.9	21
53	High Volumetric and Gravimetric Capacity Electrodeposited Mesostructured Sb ₂ O ₃ Sodium Ion Battery Anodes. <i>Small</i> , 2019, 15, e1900258.	10.0	46
54	Trimethylsilyl Azide (TMSN ₃) Enhanced Li-O ₂ Battery Electrolytes. <i>ACS Applied Energy Materials</i> , 2019, 2, 2662-2671.	5.1	6

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55	Light-triggered thermal conductivity switching in azobenzene polymers. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 5973-5978.	7.1	99
56	Thermoresponsive Stiffening with Microgel Particles in a Semiflexible Fibrin Network. Macromolecules, 2019, 52, 3029-3041.	4.8	15
57	Effect of Surface Chemistry and Roughness on the High-Temperature Deposition of a Model Asphaltene. Energy & Fuels, 2019, 33, 4104-4114.	5.1	2
58	Large-area MRI-compatible epidermal electronic interfaces for prosthetic control and cognitive monitoring. Nature Biomedical Engineering, 2019, 3, 194-205.	22.5	253
59	A bee pupa-infilled honeycomb structure-inspired $\text{Li}_{2\text{MnSiO}_4}$ cathode for high volumetric energy density secondary batteries. Chemical Communications, 2019, 55, 3582-3585.	4.1	4
60	Field Emitters Using Inverse Opal Structures. Advanced Functional Materials, 2019, 29, 1808571.	14.9	9
61	Control of lamellar eutectic orientation via template-directed solidification. Acta Materialia, 2019, 166, 715-722.	7.9	3
62	Low-Temperature Pack Aluminization Process on Pipeline Steel To Inhibit Asphaltene Deposition. ACS Applied Materials & Interfaces, 2019, 11, 47596-47605.	8.0	7
63	Rational Design of Hierarchically Open-Porous Spherical Hybrid Architectures for Lithium-Ion Batteries. Advanced Energy Materials, 2019, 9, 1802816.	19.5	48
64	Soft Three-Dimensional Microscale Vibratory Platforms for Characterization of Nano-Thin Polymer Films. ACS Nano, 2019, 13, 449-457.	14.6	28
65	Reconfigurable nanoscale soft materials. Current Opinion in Solid State and Materials Science, 2019, 23, 41-49.	11.5	14
66	Tunable Antireflection Coating to Remove Index-Matching Requirement for Interference Lithography. Advanced Optical Materials, 2018, 6, 1701049.	7.3	16
67	Template-Directed Solidification of Eutectic Optical Materials. Advanced Optical Materials, 2018, 6, 1800071.	7.3	19
68	Pack Aluminization Assisted Enhancement of Thermo-mechanical Properties in Nickel Inverse Opal Structures. Chemistry of Materials, 2018, 30, 1648-1654.	6.7	10
69	Millimeter-scale liquid metal droplet thermal switch. Applied Physics Letters, 2018, 112, .	3.3	44
70	Thin Film Condensation on Nanostructured Surfaces. Advanced Functional Materials, 2018, 28, 1707000.	14.9	60
71	Enhanced cycle stability of iron(II, III) oxide nanoparticles encapsulated with nitrogen-doped carbon and graphene frameworks for lithium battery anodes. Carbon, 2018, 129, 621-630.	10.3	28
72	Deterministic Design of Chemistry and Mesostructure in Li-Ion Battery Electrodes. ACS Nano, 2018, 12, 3060-3064.	14.6	20

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73	Electrochemical Fabrication of Flat, Polymer-Embedded Porous Silicon 1D Gradient Refractive Index Microlens Arrays. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2018, 215, 1800088.	1.8	1
74	Dendritic nanostructured FeS ₂ -based high stability and capacity Li-ion cathodes. <i>RSC Advances</i> , 2018, 8, 38745-38750.	3.6	2
75	Colloidal Metal-Organic Framework Hexapods Prepared from Postsynthesis Etching with Enhanced Catalytic Activity and Rollable Packing. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 40990-40995.	8.0	20
76	Synthesis and Formation Mechanism of All-Organic Block Copolymer-Directed Templating of Laser-Induced Crystalline Silicon Nanostructures. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 42777-42785.	8.0	15
77	Salt Water-Triggered Ionic Cross-Linking of Polymer Composites by Controlled Release of Functional Ions. <i>ACS Omega</i> , 2018, 3, 16127-16133.	3.5	0
78	Amplified Detection of Chemical Warfare Agents Using Two-Dimensional Chemical Potential Gradients. <i>ACS Omega</i> , 2018, 3, 14665-14670.	3.5	15
79	High Energy Density CNT/NaI Composite Cathodes for Sodium-Ion Batteries. <i>Advanced Materials Interfaces</i> , 2018, 5, 1801342.	3.7	9
80	Flexible Transient Optical Waveguides and Surface-Wave Biosensors Constructed from Monocrystalline Silicon. <i>Advanced Materials</i> , 2018, 30, e1801584.	21.0	55
81	High energy flexible supercapacitors formed via bottom-up infilling of gel electrolytes into thick porous electrodes. <i>Nature Communications</i> , 2018, 9, 2578.	12.8	121
82	Flexible Binder-Free CuS/Polydopamine-Coated Carbon Cloth for High Voltage Supercapacitors. <i>Energy Technology</i> , 2018, 6, 1852-1858.	3.8	12
83	Directed Molecular Collection by Jet Printed Microscale Chemical Potential Wells in Hydrogel Films. <i>Advanced Materials</i> , 2018, 30, 1803140.	21.0	8
84	Processing-Dependent Microstructure of AgCl-CsAgCl ₂ Eutectic Photonic Crystals. <i>Advanced Optical Materials</i> , 2018, 6, 1701316.	7.3	6
85	Interlayer Lithium Plating in Au Nanoparticles Pillared Reduced Graphene Oxide for Lithium Metal Anodes. <i>Advanced Functional Materials</i> , 2018, 28, 1804133.	14.9	142
86	Optical Waveguides: Flexible Transient Optical Waveguides and Surface-Wave Biosensors Constructed from Monocrystalline Silicon (<i>Adv. Mater.</i> 32/2018). <i>Advanced Materials</i> , 2018, 30, 1870239.	21.0	1
87	Self-Folded Gripper-Like Architectures from Stimuli-Responsive Bilayers. <i>Advanced Materials</i> , 2018, 30, e1801669.	21.0	53
88	Integration of colloids into a semi-flexible network of fibrin. <i>Soft Matter</i> , 2017, 13, 1430-1443.	2.7	6
89	Tunable Visibly Transparent Optics Derived from Porous Silicon. <i>ACS Photonics</i> , 2017, 4, 909-914.	6.6	30
90	High and low thermal conductivity of amorphous macromolecules. <i>Physical Review B</i> , 2017, 95, .	3.2	85

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91	Polymer Brush-Modified Microring Resonators for Partition-Enhanced Small Molecule Chemical Detection. <i>ChemistrySelect</i> , 2017, 2, 1521-1524.	1.5	2
92	Cationically Substituted Bi _{0.7} Fe _{0.3} OCl Nanosheets as Li Ion Battery Anodes. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 14187-14196.	8.0	32
93	Dynamic Gradient Directed Molecular Transport and Concentration in Hydrogel Films. <i>Angewandte Chemie</i> , 2017, 129, 5083-5088.	2.0	6
94	Electroplating lithium transition metal oxides. <i>Science Advances</i> , 2017, 3, e1602427.	10.3	62
95	Note: Qualitative degradation of the pesticide coumaphos in solution, controlled aerosol, and solid phases on quaternary ammonium fluoride polymer brushes. <i>Polymers for Advanced Technologies</i> , 2017, 28, 567-567.	3.2	1
96	Flexible and Wearable Fiber Microsupercapacitors Based on Carbon Nanotube-Agarose Gel Composite Electrodes. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 19925-19933.	8.0	34
97	Tin Sulfide-Based Nanohybrid for High-Performance Anode of Sodium-Ion Batteries. <i>Small</i> , 2017, 13, 1700767.	10.0	30
98	Dynamic Gradient Directed Molecular Transport and Concentration in Hydrogel Films. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 5001-5006.	13.8	14
99	Synergistically Enhanced Electrochemical Performance of Hierarchical MoS ₂ /TiNb ₂ O ₇ Hetero-nanostructures as Anode Materials for Li-Ion Batteries. <i>ACS Nano</i> , 2017, 11, 1026-1033.	14.6	89
100	High-Operating-Temperature Direct Ink Writing of Mesoscale Eutectic Architectures. <i>Advanced Materials</i> , 2017, 29, 1604778.	21.0	41
101	Three-dimensional mesostructures as high-temperature growth templates, electronic cellular scaffolds, and self-propelled microrobots. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E9455-E9464.	7.1	129
102	Low-Temperature Hydrothermal Synthesis of Colloidal Crystal Templated Nanostructured Single-Crystalline ZnO. <i>Chemistry of Materials</i> , 2017, 29, 9734-9741.	6.7	11
103	A programmable soft chemo-mechanical actuator exploiting a catalyzed photochemical water-oxidation reaction. <i>Soft Matter</i> , 2017, 13, 7312-7317.	2.7	18
104	Reduced Graphene Oxide/LiI Composite Lithium Ion Battery Cathodes. <i>Nano Letters</i> , 2017, 17, 6893-6899.	9.1	67
105	Resonant Mode Engineering of Photonic Crystal Sensors Clad with Ultralow Refractive Index Porous Silicon Dioxide. <i>Advanced Optical Materials</i> , 2017, 5, 1700605.	7.3	29
106	Bifurcation of self-folded polygonal bilayers. <i>Applied Physics Letters</i> , 2017, 111, .	3.3	13
107	Improved Performance in FeF ₂ Conversion Cathodes through Use of a Conductive 3D Scaffold and Al ₂ O ₃ ALD Coating. <i>Advanced Functional Materials</i> , 2017, 27, 1702783.	14.9	55
108	Electrodeposited high strength, thermally stable spectrally selective rhenium nickel inverse opals. <i>Nanoscale</i> , 2017, 9, 11187-11194.	5.6	14

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109	Qualitative degradation of the pesticide coumaphos in solution, controlled aerosol, and solid phases on quaternary ammonium fluoride polymer brushes. <i>Polymers for Advanced Technologies</i> , 2017, 28, 73-79.	3.2	1
110	Dynamic 3D Microplasma Photonic Crystal By 3D Printing. , 2017, , .		0
111	3D Holographic Photonic Crystals Containing Embedded Functional Features. <i>Advanced Optical Materials</i> , 2016, 4, 1533-1540.	7.3	11
112	Thermal Conductivity of Graphite Thin Films Grown by Low Temperature Chemical Vapor Deposition on Ni (111). <i>Advanced Materials Interfaces</i> , 2016, 3, 1600234.	3.7	35
113	Programmable shape transformation of elastic spherical domes. <i>Soft Matter</i> , 2016, 12, 6184-6195.	2.7	28
114	Heteroepitaxial Growth of GaN on Unconventional Templates and Layerâ€”Transfer Techniques for Largeâ€”Area, Flexible/Stretchable Lightâ€”Emitting Diodes. <i>Advanced Optical Materials</i> , 2016, 4, 505-521.	7.3	27
115	Thermally Functional Liquid Crystal Networks by Magnetic Field Driven Molecular Orientation. <i>ACS Macro Letters</i> , 2016, 5, 955-960.	4.8	84
116	Lithiumâ€”Ion Batteries: Graphene Sandwiched Mesostructured Liâ€”Ion Battery Electrodes (<i>Adv. Mater.</i>) Tj ETQq0 0,0 rgBT /Oylock 10	21.0	86
117	Graphene Sandwiched Mesostructured Liâ€”Ion Battery Electrodes. <i>Advanced Materials</i> , 2016, 28, 7696-7702.	21.0	86
118	Porous Silicon Gradient Refractive Index Micro-Optics. <i>Nano Letters</i> , 2016, 16, 7402-7407.	9.1	30
119	Highâ€”Performance Mesostructured Organic Hybrid Pseudocapacitor Electrodes. <i>Advanced Functional Materials</i> , 2016, 26, 903-910.	14.9	63
120	High Volumetric Capacity Three-Dimensionally Sphere-Caged Secondary Battery Anodes. <i>Nano Letters</i> , 2016, 16, 4501-4507.	9.1	62
121	Three-Dimensional Single Gyroid Photonic Crystals with a Mid-Infrared Bandgap. <i>ACS Photonics</i> , 2016, 3, 1131-1137.	6.6	49
122	3D Scaffolded Nickelâ€”Tin Liâ€”Ion Anodes with Enhanced Cyclability. <i>Advanced Materials</i> , 2016, 28, 742-747.	21.0	90
123	Bioresorbable silicon electronic sensors for the brain. <i>Nature</i> , 2016, 530, 71-76.	27.8	778
124	Integration of high capacity materials into interdigitated mesostructured electrodes for high energy and high power density primary microbatteries. <i>Journal of Power Sources</i> , 2016, 315, 308-315.	7.8	32
125	Quasi-ballistic Electronic Thermal Conduction in Metal Inverse Opals. <i>Nano Letters</i> , 2016, 16, 2754-2761.	9.1	72
126	Photonic Crystals: Template-Directed Directionally Solidified 3D Mesostructured AgCl-KCl Eutectic Photonic Crystals (<i>Adv. Mater.</i> 31/2015). <i>Advanced Materials</i> , 2015, 27, 4550-4550.	21.0	0

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127	Epitaxial growth of three dimensionally structured III-V photonic crystal via hydride vapor phase epitaxy. <i>Journal of Applied Physics</i> , 2015, 118, 224303.	2.5	9
128	Colloidal Particles that Rapidly Change Shape via Elastic Instabilities. <i>Small</i> , 2015, 11, 6051-6057.	10.0	24
129	High Full-Electrode Basis Capacity Template-Free 3D Nanocomposite Secondary Battery Anodes. <i>Small</i> , 2015, 11, 6265-6271.	10.0	14
130	In Operando Strain Measurement of Bicontinuous Silicon-Coated Nickel Inverse Opal Anodes for Li-Ion Batteries. <i>Advanced Energy Materials</i> , 2015, 5, 1500466.	19.5	30
131	Enhanced Secondary Battery Anodes Based on Si and Fe ₃ O ₄ Nanoparticle Filled Monodisperse Carbon Starburst Colloidal Crystals. <i>Particle and Particle Systems Characterization</i> , 2015, 32, 928-933.	2.3	3
132	Template-Directed Directionally Solidified 3D Mesostructured AgCl-KCl Eutectic Photonic Crystals. <i>Advanced Materials</i> , 2015, 27, 4551-4559.	21.0	28
133	Mechanically and Chemically Robust Sandwich-Structured C@Si@C Nanotube Array Li-Ion Battery Anodes. <i>ACS Nano</i> , 2015, 9, 1985-1994.	14.6	119
134	Repetitive Hole-Mask Colloidal Lithography for the Fabrication of Large-Area Low-Cost Plasmonic Multishape Single-Layer Metasurfaces. <i>Advanced Optical Materials</i> , 2015, 3, 680-686.	7.3	19
135	Unveiling Surface Redox Charge Storage of Interacting Two-Dimensional Heteronanoshets in Hierarchical Architectures. <i>Nano Letters</i> , 2015, 15, 2269-2277.	9.1	80
136	Extremely Durable, Flexible Supercapacitors with Greatly Improved Performance at High Temperatures. <i>ACS Nano</i> , 2015, 9, 8569-8577.	14.6	113
137	Three-Dimensionally Mesostructured Fe ₂ O ₃ Electrodes with Good Rate Performance and Reduced Voltage Hysteresis. <i>Chemistry of Materials</i> , 2015, 27, 2803-2811.	6.7	74
138	Self-Assembly of Monodisperse Starburst Carbon Spheres into Hierarchically Organized Nanostructured Supercapacitor Electrodes. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 9128-9133.	8.0	36
139	Functionalized Hydrogel on Plasmonic Nanoantennas for Noninvasive Glucose Sensing. <i>ACS Photonics</i> , 2015, 2, 475-480.	6.6	85
140	Holographic patterning of high-performance on-chip 3D lithium-ion microbatteries. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 6573-6578.	7.1	179
141	Autonomic Molecular Transport by Polymer Films Containing Programmed Chemical Potential Gradients. <i>Journal of the American Chemical Society</i> , 2015, 137, 5066-5073.	13.7	30
142	Hole-mask colloidal nanolithography combined with tilted-angle-rotation evaporation: A versatile method for fabrication of low-cost and large-area complex plasmonic nanostructures and metamaterials. <i>Beilstein Journal of Nanotechnology</i> , 2014, 5, 577-586.	2.8	22
143	Epitaxial Growth of Three-Dimensionally Mesostructured Single-Crystalline Cu ₂ O via Templated Electrodeposition. <i>Chemistry of Materials</i> , 2014, 26, 7051-7058.	6.7	17
144	Nanoscale thermal transport. II. 2003-2012. <i>Applied Physics Reviews</i> , 2014, 1, 011305.	11.3	1,277

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145	Materials Chemistry in 3D Templates for Functional Photonics. <i>Chemistry of Materials</i> , 2014, 26, 277-286.	6.7	49
146	Facile fabrication of graphene composite microwires via drying-induced size reduction of hydrogel filaments. <i>RSC Advances</i> , 2014, 4, 20927-20931.	3.6	14
147	Transfer-Printing of Tunable Porous Silicon Microcavities with Embedded Emitters. <i>ACS Photonics</i> , 2014, 1, 1144-1150.	6.6	39
148	Electrode architectures for high capacity multivalent conversion compounds: iron (ii and iii) fluoride. <i>RSC Advances</i> , 2014, 4, 6730.	3.6	39
149	Hydrothermal Fabrication of Three-Dimensional Secondary Battery Anodes. <i>Advanced Materials</i> , 2014, 26, 7096-7101.	21.0	48
150	Solvent Swelling Activation of a Mechanophore in a Polymer Network. <i>Macromolecules</i> , 2014, 47, 2690-2694.	4.8	96
151	Selective Wetting-Induced Micro-Electrode Patterning for Flexible Micro-Supercapacitors. <i>Advanced Materials</i> , 2014, 26, 5108-5112.	21.0	146
152	Micromechanical devices with controllable stiffness fabricated from regular 3D porous materials. <i>Journal of Micromechanics and Microengineering</i> , 2014, 24, 105006.	2.6	17
153	Polymer Brushes Patterned with Micrometer-Scale Chemical Gradients Using Laminar Co-Flow. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 14320-14326.	8.0	13
154	General Method for Forming Micrometer-Scale Lateral Chemical Gradients in Polymer Brushes. <i>Chemistry of Materials</i> , 2014, 26, 2678-2683.	6.7	13
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