Richard B Kaner

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Crystalline tetra-aniline with chloride interactions towards a biocompatible supercapacitor. Materials Horizons, 2022, 9, 383-392.	12.2	18
2	Liquidâ€Metalâ€Enabled Mechanicalâ€Energyâ€Induced CO ₂ Conversion. Advanced Materials, 2022 34, e2105789.	2,21.0	58
3	Thin-Film Composite Membranes with a Hybrid Dimensional Titania Interlayer for Ultrapermeable Nanofiltration. Nano Letters, 2022, 22, 1039-1046.	9.1	37
4	Gold Sunflower Microelectrode Arrays with Dendritic Nanostructures on the Lateral Surfaces for Antireflection and Surface-Enhanced Raman Scattering. ACS Applied Nano Materials, 2022, 5, 1873-1890.	5.0	12
5	Ultrapermeable nanofiltration membranes with tunable selectivity fabricated with polyaniline nanofibers. Journal of Materials Chemistry A, 2022, 10, 4392-4401.	10.3	13
6	Oscillatory bifurcation patterns initiated by seeded surface solidification of liquid metals. , 2022, 1, 158-169.		15
7	Trilayer Metal–Organic Frameworks as Multifunctional Electrocatalysts for Energy Conversion and Storage Applications. Journal of the American Chemical Society, 2022, 144, 3411-3428.	13.7	142
8	A Readily Scalable, Clinically Demonstrated, Antibiofouling Zwitterionic Surface Treatment for Implantable Medical Devices. Advanced Materials, 2022, 34, e2200254.	21.0	18
9	Hardening Effects in Superhard Transition-Metal Borides. Accounts of Materials Research, 2022, 3, 100-109.	11.7	20
10	Macro―and Nanoâ€Porous 3Dâ€Hierarchical Carbon Lattices for Extraordinarily High Capacitance Supercapacitors. Advanced Functional Materials, 2022, 32, .	14.9	25
11	Low Temperature Nano Mechano-electrocatalytic CH ₄ Conversion. ACS Nano, 2022, 16, 8684-8693.	14.6	19
12	A Readily Scalable, Clinically Demonstrated, Antibiofouling Zwitterionic Surface Treatment for Implantable Medical Devices (Adv. Mater. 20/2022). Advanced Materials, 2022, 34, .	21.0	1
13	Macroporous Graphene Frameworks for Sensing and Supercapacitor Applications. Advanced Functional Materials, 2022, 32, .	14.9	35
14	Reverse osmosis membrane compaction and embossing at ultra-high pressure operation. Desalination, 2022, 537, 115875.	8.2	15
15	Enhanced Hardening Effects on Molybdenum-Doped WB ₂ and WB ₂ –SiC/B ₄ C Composites. Chemistry of Materials, 2022, 34, 5461-5470.	6.7	2
16	A 3Dâ€Printed, Freestanding Carbon Lattice for Sodium Ion Batteries. Small, 2022, 18, .	10.0	22
17	Low-temperature liquid platinum catalyst. Nature Chemistry, 2022, 14, 935-941.	13.6	61
18	Laserâ€Scribed Graphene–Polyaniline Microsupercapacitor for Internetâ€ofâ€Things Applications. Advanced Functional Materials, 2022, 32, .	14.9	27

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19	Selfâ€Deposition of 2D Molybdenum Sulfides on Liquid Metals. Advanced Functional Materials, 2021, 31, 2005866.	14.9	41
20	Unique surface patterns emerging during solidification of liquid metal alloys. Nature Nanotechnology, 2021, 16, 431-439.	31.5	104
21	Ultrafast rechargeable Zn micro-batteries endowing a wearable solar charging system with high overall efficiency. Energy and Environmental Science, 2021, 14, 1602-1611.	30.8	64
22	Niobium pentoxide based materials for high rate rechargeable electrochemical energy storage. Materials Horizons, 2021, 8, 1130-1152.	12.2	51
23	Bioinspired polydopamine supported on oxygen-functionalized carbon cloth as a high-performance 1.2 V aqueous symmetric metal-free supercapacitor. Journal of Materials Chemistry A, 2021, 9, 7712-7725.	10.3	20
24	Conducting Polyaniline for Antifouling Ultrafiltration Membranes: Solutions and Challenges. Nano Letters, 2021, 21, 3699-3707.	9.1	30
25	Assembly of Nanofluidic MXene Fibers with Enhanced Ionic Transport and Capacitive Charge Storage by Flake Orientation. ACS Nano, 2021, 15, 7821-7832.	14.6	83
26	Self-healing flexible/stretchable energy storage devices. Materials Today, 2021, 44, 78-104.	14.2	85
27	Graphene's Role in Emerging Trends of Capacitive Energy Storage. Small, 2021, 17, e2006875.	10.0	28
28	Laser-carbonization: Peering into the formation of micro-thermally produced (N-doped)carbons. Carbon, 2021, 176, 500-510.	10.3	16
29	3D Graphene Network with Covalently Grafted Aniline Tetramer for Ultralong‣ife Supercapacitors. Advanced Functional Materials, 2021, 31, 2102397.	14.9	48
30	Facile Fabrication of Multivalent VO <i>_x</i> /Graphene Nanocomposite Electrodes for Highâ€Energyâ€Density Symmetric Supercapacitors. Advanced Energy Materials, 2021, 11, 2100768.	19.5	40
31	A multipronged approach for systematic in vitro quantification of catheter-associated biofilms. Journal of Hazardous Materials Letters, 2021, 2, 100032.	3.6	3
32	Polyaniline-Lignin Interpenetrating Network for Supercapacitive Energy Storage. Nano Letters, 2021, 21, 9485-9493.	9.1	45
33	Liquid metal enabled continuous flow reactor: A proof-of-concept. Matter, 2021, 4, 4022-4041.	10.0	20
34	Self-Assembly and Cross-Linking of Conducting Polymers into 3D Hydrogel Electrodes for Supercapacitor Applications. ACS Applied Energy Materials, 2020, 3, 923-932.	5.1	73
35	Inâ€Operando Calorimetric Measurements for Activated Carbon Electrodes in Ionic Liquid Electrolytes under Large Potential Windows. ChemSusChem, 2020, 13, 1013-1026.	6.8	19
36	How permeable could a reverse osmosis membrane be if it was specifically developed for uncharged organic solute rejection?. AWWA Water Science, 2020, 2, e1189.	2.1	4

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37	Toward Highâ€Performance Triboelectric Nanogenerators by Engineering Interfaces at the Nanoscale: Looking into the Future Research Roadmap. Advanced Materials Technologies, 2020, 5, 2000520.	5.8	27
38	Enhancing Polyvalent Cation Rejection Using Perfluorophenylazide-Grafted-Copolymer Membrane Coatings. ACS Applied Materials & Interfaces, 2020, 12, 42030-42040.	8.0	11
39	Fjord-Edge Graphene Nanoribbons with Site-Specific Nitrogen Substitution. Journal of the American Chemical Society, 2020, 142, 18093-18102.	13.7	24
40	Enhancing cycling stability of tungsten oxide supercapacitor electrodes <i>via</i> a boron cluster-based molecular cross-linking approach. Journal of Materials Chemistry A, 2020, 8, 18015-18023.	10.3	13
41	Performance, Energy and Cost of Produced Water Treatment by Chemical and Electrochemical Coagulation. Water (Switzerland), 2020, 12, 3426.	2.7	17
42	On hip Chemiresistive Sensor Array for Onâ€Road NO <i>_x</i> Monitoring with Quantification. Advanced Science, 2020, 7, 2002014.	11.2	19
43	Nucleation and Growth of Polyaniline Nanofibers onto Liquid Metal Nanoparticles. Chemistry of Materials, 2020, 32, 4808-4819.	6.7	75
44	3D Crumpled Ultrathin 1T MoS ₂ for Inkjet Printing of Mg-Ion Asymmetric Micro-supercapacitors. ACS Nano, 2020, 14, 7308-7318.	14.6	100
45	Ultrapermeable Organic Solvent Nanofiltration Membranes with Precisely Tailored Support Layers Fabricated Using Thin-Film Liftoff. ACS Applied Materials & Interfaces, 2020, 12, 30796-30804.	8.0	20
46	Liquidâ€Metalâ€Templated Synthesis of 2D Graphitic Materials at Room Temperature. Advanced Materials, 2020, 32, e2001997.	21.0	63
47	Exploration of Advanced Electrode Materials for Approaching Highâ€Performance Nickelâ€Based Superbatteries. Small, 2020, 16, e2001340.	10.0	26
48	Nanostructured Graphene Oxide Composite Membranes with Ultrapermeability and Mechanical Robustness. Nano Letters, 2020, 20, 2209-2218.	9.1	41
49	Crystalline Liquid-like Behavior: Surface-Induced Secondary Grain Growth of Photovoltaic Perovskite Thin Film. Journal of the American Chemical Society, 2019, 141, 13948-13953.	13.7	163
50	Synthesis and High-Pressure Mechanical Properties of Superhard Rhenium/Tungsten Diboride Nanocrystals. ACS Nano, 2019, 13, 10036-10048.	14.6	12
51	Next-Generation Asymmetric Membranes Using Thin-Film Liftoff. Nano Letters, 2019, 19, 5036-5043.	9.1	28
52	Nile Blue Functionalized Graphene Aerogel as a Pseudocapacitive Negative Electrode Material across the Full pH Range. ACS Nano, 2019, 13, 12567-12576.	14.6	66
53	Advantages of eutectic alloys for creating catalysts in the realm of nanotechnology-enabled metallurgy. Nature Communications, 2019, 10, 4645.	12.8	76
54	Printable magnesiumÂion quasi-solid-state asymmetric supercapacitors for flexible solar-charging integrated units. Nature Communications, 2019, 10, 4913.	12.8	162

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55	Highly Permeable Polyaniline–Graphene Oxide Nanocomposite Membranes for CO ₂ Separations. ACS Applied Polymer Materials, 2019, 1, 3233-3241.	4.4	33
56	Integrated Triboelectric Nanogenerators in the Era of the Internet of Things. Advanced Science, 2019, 6, 1802230.	11.2	174
57	Understanding the mechanism of hardness enhancement in tantalum-substituted tungsten monoboride solid solutions. Journal of Applied Physics, 2019, 125, .	2.5	9
58	Catalytic Effects of Aniline Polymerization Assisted by Oligomers. ACS Catalysis, 2019, 9, 6596-6606.	11.2	6
59	Carbon Nanodots for Capacitor Electrodes. Trends in Chemistry, 2019, 1, 858-868.	8.5	30
60	Patching laser-reduced graphene oxide with carbon nanodots. Nanoscale, 2019, 11, 12712-12719.	5.6	23
61	Self-Assembled Functionally Graded Graphene Films with Tunable Compositions and Their Applications in Transient Electronics and Actuation. ACS Applied Materials & amp; Interfaces, 2019, 11, 23463-23473.	8.0	10
62	Synthesis and Characterization of Single-Phase Metal Dodecaboride Solid Solutions: Zr _{1–<i>x</i>} Y _{<i>x</i>} B ₁₂ and Zr _{1–<i>x</i>} U _{<i>x</i>} B ₁₂ . Journal of the American Chemical Society, 2019, 141, 9047-9062.	13.7	15
63	Direct grafting of tetraaniline <i>via</i> perfluorophenylazide photochemistry to create antifouling, low bio-adhesion surfaces. Chemical Science, 2019, 10, 4445-4457.	7.4	16
64	All printable snow-based triboelectric nanogenerator. Nano Energy, 2019, 60, 17-25.	16.0	42
65	Radial Xâ€Ray Diffraction Study of Superhard Early Transition Metal Dodecaborides under High Pressure. Advanced Functional Materials, 2019, 29, 1900293.	14.9	12
66	Graphene/oligoaniline based supercapacitors: Towards conducting polymer materials with high rate charge storage. Energy Storage Materials, 2019, 19, 137-147.	18.0	39
67	Fire-retardant, self-extinguishing triboelectric nanogenerators. Nano Energy, 2019, 59, 336-345.	16.0	61
68	Towards establishing standard performance metrics for batteries, supercapacitors and beyond. Chemical Society Reviews, 2019, 48, 1272-1341.	38.1	824
69	Carbon Nanodots: Laserâ€Assisted Lattice Recovery of Graphene by Carbon Nanodot Incorporation (Small 52/2019). Small, 2019, 15, 1970285.	10.0	2
70	Laserâ€Assisted Lattice Recovery of Graphene by Carbon Nanodot Incorporation. Small, 2019, 15, e1904918.	10.0	11
71	Fast response electrochemical capacitor electrodes created by laser-reduction of carbon nanodots. Materials Today Energy, 2019, 11, 114-119.	4.7	19
72	Asymmetric supercapacitors: An alternative to activated carbon negative electrodes based on earth abundant elements. Materials Today Energy, 2019, 12, 26-36.	4.7	63

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73	Microscopic investigation of local structural and electronic properties of tungsten tetraboride: a superhard metallic material. Journal of Materials Science, 2019, 54, 3547-3557.	3.7	7
74	Understanding How Bonding Controls Strength Anisotropy in Hard Materials by Comparing the High-Pressure Behavior of Orthorhombic and Tetragonal Tungsten Monoboride. Journal of Physical Chemistry C, 2018, 122, 5647-5656.	3.1	10
75	A molecular cross-linking approach for hybrid metal oxides. Nature Materials, 2018, 17, 341-348.	27.5	90
76	Monolithically Integrated Self-Charging Power Pack Consisting of a Silicon Nanowire Array/Conductive Polymer Hybrid Solar Cell and a Laser-Scribed Graphene Supercapacitor. ACS Applied Materials & Interfaces, 2018, 10, 15609-15615.	8.0	69
77	Effects of Dodecaboride-Forming Metals on the Properties of Superhard Tungsten Tetraboride. Chemistry of Materials, 2018, 30, 3559-3570.	6.7	24
78	Investigation of ternary metal dodecaborides (M ₁ M ₂ M ₃)B ₁₂ (M ₁ , M ₂ and) Tj ET	Г QqQ 3О0 г	rgBīī2/Overloc
79	Hollow Pt-Functionalized SnO ₂ Hemipill Network Formation Using a Bacterial Skeleton for the Noninvasive Diagnosis of Diabetes. ACS Sensors, 2018, 3, 661-669.	7.8	37
80	Three-dimensional design and fabrication of reduced graphene oxide/polyaniline composite hydrogel electrodes for high performance electrochemical supercapacitors. Nanotechnology, 2018, 29, 175402.	2.6	47
81	Synthesis and characterization of aluminum diboride products using 27Al, 11B NMR and ab initio studies. Journal of Materials Science, 2018, 53, 3309-3322.	3.7	4
82	A Simple Route to Porous Graphene from Carbon Nanodots for Supercapacitor Applications. Advanced Materials, 2018, 30, 1704449.	21.0	302
83	Compact, flexible conducting polymer/graphene nanocomposites for supercapacitors of high volumetric energy density. Composites Science and Technology, 2018, 160, 50-59.	7.8	62
84	An integrated electrochemical device based on earth-abundant metals for both energy storage and conversion. Energy Storage Materials, 2018, 11, 282-293.	18.0	82
85	The use of an electrocatalytic redox electrolyte for pushing the energy density boundary of a flexible polyaniline electrode to a new limit. Nano Energy, 2018, 44, 489-498.	16.0	105
86	Embedding hollow Co3O4 nanoboxes into a three-dimensional macroporous graphene framework for high-performance energy storage devices. Nano Research, 2018, 11, 2836-2846.	10.4	31
87	Laser-reduced graphene-oxide/ferrocene: a 3-D redox-active composite for supercapacitor electrodes. Journal of Materials Chemistry A, 2018, 6, 20463-20472.	10.3	43
88	Carbon Nanodots as Feedstock for a Uniform Hematiteâ€Graphene Nanocomposite. Small, 2018, 14, e1803656.	10.0	23
89	Optically Active Poly[2-(<i>sec</i> -butyl)aniline] Nanofibers Prepared via Enantioselective Polymerization. ACS Omega, 2018, 3, 18895-18905.	3.5	5
90	Superhard Tungsten Diboride-Based Solid Solutions. Inorganic Chemistry, 2018, 57, 15305-15313.	4.0	36

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91	Thionine Functionalized 3D Graphene Aerogel: Combining Simplicity and Efficiency in Fabrication of a Metalâ€Free Redox Supercapacitor. Advanced Energy Materials, 2018, 8, 1802869.	19.5	153
92	Design and Mechanisms of Asymmetric Supercapacitors. Chemical Reviews, 2018, 118, 9233-9280.	47.7	2,379
93	Silicon expansion at the service of safety – A reversible potential-dependent switch for safer batteries. Materials Today Energy, 2018, 10, 89-97.	4.7	5
94	Investigation of Hardness of Ternary Borides of the YCrB ₄ , Y ₂ ReB ₆ , Y ₃ ReB ₇ , and YMo ₃ B ₇ Structural Types. Chemistry of Materials, 2018, 30, 6494-6502.	6.7	17
95	Perspective: Superhard metal borides: A look forward. APL Materials, 2018, 6, 070901.	5.1	77
96	Highâ€Throughput Continuous Production of Shearâ€Exfoliated 2D Layered Materials using Compressible Flows. Advanced Materials, 2018, 30, e1800200.	21.0	51
97	Roll-to-Roll Functionalization of Polyolefin Separators for High-Performance Lithium-Ion Batteries. ACS Applied Energy Materials, 2018, 1, 3292-3300.	5.1	21
98	Polyaniline nanofibers: broadening applications for conducting polymers. Chemical Society Reviews, 2017, 46, 1510-1525.	38.1	484
99	Wafer-scale two-dimensional semiconductors from printed oxide skin of liquid metals. Nature Communications, 2017, 8, 14482.	12.8	219
100	Nextâ€Generation Activated Carbon Supercapacitors: A Simple Step in Electrode Processing Leads to Remarkable Gains in Energy Density. Advanced Functional Materials, 2017, 27, 1605745.	14.9	220
101	Ultrathin Graphene–Protein Supercapacitors for Miniaturized Bioelectronics. Advanced Energy Materials, 2017, 7, 1700358.	19.5	88
102	Calligraphy-inspired brush written foldable supercapacitors. Nano Energy, 2017, 38, 428-437.	16.0	26
103	A Surprising Failure Mechanism in Symmetric Supercapacitors at High Voltages. ChemElectroChem, 2017, 4, 2660-2668.	3.4	26
104	Aluminumâ€Ionâ€Intercalation Supercapacitors with Ultrahigh Areal Capacitance and Highly Enhanced Cycling Stability: Power Supply for Flexible Electrochromic Devices. Small, 2017, 13, 1700380.	10.0	107
105	Rediscovering the Crystal Chemistry of Borides. Advanced Materials, 2017, 29, 1604506.	21.0	260
106	11B NMR Study of WB2. Journal of Physical Chemistry C, 2017, 121, 1315-1320.	3.1	4
107	Synthesis of <i>N</i> = 8 Armchair Graphene Nanoribbons from Four Distinct Polydiacetylenes. Journal of the American Chemical Society, 2017, 139, 15878-15890.	13.7	78
108	Wafer-Scale Synthesis of Semiconducting SnO Monolayers from Interfacial Oxide Layers of Metallic Liquid Tin. ACS Nano, 2017, 11, 10974-10983.	14.6	122

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109	A liquid metal reaction environment for the room-temperature synthesis of atomically thin metal oxides. Science, 2017, 358, 332-335.	12.6	576
110	Organic dispersion of polyaniline and single-walled carbon nanotubes and polyblends with poly(methyl methacrylate). Polymer, 2017, 129, 1-4.	3.8	17
111	Flexible quasi-solid-state planar micro-supercapacitor based on cellular graphene films. Materials Horizons, 2017, 4, 1145-1150.	12.2	222
112	A wide potential window aqueous supercapacitor based on LiMn2O4–rGO nanocomposite. Journal of the Iranian Chemical Society, 2017, 14, 2579-2590.	2.2	15
113	Furthering Our Understanding of the Doping Mechanism in Conjugated Polymers Using Tetraaniline. Macromolecules, 2017, 50, 5892-5897.	4.8	28
114	Boosting the capacitance and voltage of aqueous supercapacitors via redox charge contribution from both electrode and electrolyte. Nano Today, 2017, 15, 15-25.	11.9	108
115	Rapid Prototyping of a Low-cost Graphene-based Impedimetric Biosensor. Procedia Technology, 2017, 27, 274-276.	1.1	2
116	Lithium-Ion Insertion Properties of Solution-Exfoliated Germanane. ACS Nano, 2017, 11, 7995-8001.	14.6	63
117	Fabrication of Graphene–Polyimide Nanocomposites with Superior Electrical Conductivity. ACS Applied Materials & Interfaces, 2017, 9, 43230-43238.	8.0	47
118	Effects of Variable Boron Concentration on the Properties of Superhard Tungsten Tetraboride. Journal of the American Chemical Society, 2017, 139, 17120-17127.	13.7	35
119	Characterization of Aniline Tetramer by MALDI TOF Mass Spectrometry upon Oxidative and Reductive Cycling. Polymers, 2016, 8, 401.	4.5	19
120	Superhard Monoborides: Hardness Enhancement through Alloying in W _{1â^'} <i>_x</i> Ta <i>_x</i> B. Advanced Materials, 2016, 28, 6993-6998.	21.0	75
121	Superhard W0.5Ta0.5B nanowires prepared at ambient pressure. Applied Physics Letters, 2016, 109, .	3.3	18
122	Synthesis and applications of conducting polymer nanofibers. MRS Bulletin, 2016, 41, 785-790.	3.5	3
123	Synthesis of sub-millimeter Bi-/multi-layer graphene by designing a sandwiched structure using copper foils. Applied Physics Letters, 2016, 109, .	3.3	3
124	Stabilization of LnB ₁₂ (Ln = Gd, Sm, Nd, and Pr) in Zr _{1–<i>x</i>} Ln _{<i>x</i>} B ₁₂ under Ambient Pressure. Inorganic Chemistry, 2016, 55, 12419-12426.	4.0	20
125	An etching phenomenon exhibited by chemical vapor deposited graphene on a copper pocket. Carbon, 2016, 106, 279-283.	10.3	11
126	Extrinsic Hardening of Superhard Tungsten Tetraboride Alloys with Group 4 Transition Metals. Journal of the American Chemical Society, 2016, 138, 5714-5721.	13.7	64

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127	Stabilization of HfB ₁₂ in Y _{1–<i>x</i>} Hf _{<i>x</i>} B ₁₂ under Ambient Pressure. Inorganic Chemistry, 2016, 55, 5051-5055.	4.0	33
128	Synthesis of Graphene Nanoribbons via the Topochemical Polymerization and Subsequent Aromatization of a Diacetylene Precursor. CheM, 2016, 1, 78-90.	11.7	87
129	Superhard Rhenium/Tungsten Diboride Solid Solutions. Journal of the American Chemical Society, 2016, 138, 14398-14408.	13.7	48
130	Cadmium nanoclusters in a protein matrix: Synthesis, characterization, and application in targeted drug delivery and cellular imaging. Nano Research, 2016, 9, 3229-3246.	10.4	40
131	Excitation dependent bidirectional electron transfer in phthalocyanine-functionalised MoS ₂ nanosheets. Nanoscale, 2016, 8, 16276-16283.	5.6	62
132	Superhard Mixed Transition Metal Dodecaborides. Chemistry of Materials, 2016, 28, 6605-6612.	6.7	57
133	Graphene for batteries, supercapacitors and beyond. Nature Reviews Materials, 2016, 1, .	48.7	925
134	3D Freeze asting of Cellular Graphene Films for Ultrahighâ€Powerâ€Density Supercapacitors. Advanced Materials, 2016, 28, 6719-6726.	21.0	390
135	Synthesis of NiMnO ₃ /C nano-composite electrode materials for electrochemical capacitors. Nanotechnology, 2016, 27, 315401.	2.6	51
136	Low-Fouling Antibacterial Reverse Osmosis Membranes via Surface Grafting of Graphene Oxide. ACS Applied Materials & Interfaces, 2016, 8, 14334-14338.	8.0	113
137	Lithium-silica nanosalt as a low-temperature electrolyte additive for lithium-ion batteries. Current Applied Physics, 2016, 16, 611-617.	2.4	26
138	¹¹ B NMR Spectral and Nuclear Spin–Lattice Relaxation Analyses of ReB ₂ . Journal of Physical Chemistry C, 2016, 120, 2901-2907.	3.1	9
139	Ultraincompressible, Superhard Materials. Annual Review of Materials Research, 2016, 46, 465-485.	9.3	92
140	Enhancing the Hardness of Superhard Transition-Metal Borides: Molybdenum-Doped Tungsten Tetraboride. Chemistry of Materials, 2016, 28, 632-637.	6.7	60
141	LATE-BREAKING ABSTRACT: Activity limitation and exacerbations in smokers with emphysema on CT but preserved pulmonary function. SPIROMICS. , 2016, , .		0
142	2D MoS ₂ PDMS Nanocomposites for NO ₂ Separation. Small, 2015, 11, 5035-5040.	10.0	59
143	Flash Converted Graphene for Ultraâ€High Power Supercapacitors. Advanced Energy Materials, 2015, 5, 1500786.	19.5	80
144	Enhanced Gas Permeation through Graphene Nanocomposites. Journal of Physical Chemistry C, 2015, 119, 13700-13712.	3.1	70

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145	Fabrication of high power LiNi0.5Mn1.5O4 battery cathodes by nanostructuring of electrode materials. RSC Advances, 2015, 5, 50433-50439.	3.6	12
146	¹⁰ B and ¹¹ B NMR Study of Elemental Boron. Journal of Physical Chemistry C, 2015, 119, 13807-13813.	3.1	16
147	Designing 3D Highly Ordered Nanoporous CuO Electrodes for High-Performance Asymmetric Supercapacitors. ACS Applied Materials & Interfaces, 2015, 7, 4851-4860.	8.0	340
148	High Surface Area Tunnels in Hexagonal WO ₃ . Nano Letters, 2015, 15, 4834-4838.	9.1	144
149	Interfacial chemical oxidative synthesis of multifunctional polyfluoranthene. Chemical Science, 2015, 6, 2087-2101.	7.4	26
150	Highly Ordered Mesoporous CuCo ₂ O ₄ Nanowires, a Promising Solution for High-Performance Supercapacitors. Chemistry of Materials, 2015, 27, 3919-3926.	6.7	353
151	Graphene-based materials for flexible supercapacitors. Chemical Society Reviews, 2015, 44, 3639-3665.	38.1	1,015
152	Engineering three-dimensional hybrid supercapacitors and microsupercapacitors for high-performance integrated energy storage. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 4233-4238.	7.1	500
153	Structure of superhard tungsten tetraboride: A missing link between MB ₂ and MB ₁₂ higher borides. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 3223-3228.	7.1	82
154	Novel chlorine resistant low-fouling ultrafiltration membrane based on a hydrophilic polyaniline derivative. Journal of Materials Chemistry A, 2015, 3, 8725-8733.	10.3	35
155	Direct preparation and processing of graphene/RuO 2 nanocomposite electrodes for high-performance capacitive energy storage. Nano Energy, 2015, 18, 57-70.	16.0	181
156	Introducing the micro-super-capacitor laser-etched graphene brings Moore's law to energy storage. IEEE Spectrum, 2015, 52, 40-45.	0.7	4
157	Efficient synthesis of oligofluoranthene nanorods with tunable functionalities. Chemical Science, 2015, 6, 7190-7200.	7.4	14
158	Mechanochemical synthesis and high temperature thermoelectric properties of calcium-doped lanthanum telluride La _{3â^'x} Ca _x Te ₄ . Journal of Materials Chemistry C, 2015, 3, 10459-10466.	5.5	19
159	Exploring hardness enhancement in superhard tungsten tetraboride-based solid solutions using radial X-ray diffraction. Applied Physics Letters, 2015, 107, .	3.3	20
160	Graphene-Assisted Solution Growth of Vertically Oriented Organic Semiconducting Single Crystals. ACS Nano, 2015, 9, 9486-9496.	14.6	46
161	A mechanistic study of cross-coupling reactions catalyzed by palladium nanoparticles supported on polyaniline nanofibers. Inorganic Chemistry Frontiers, 2015, 2, 35-41.	6.0	20
162	Raman scattering from superhard rhenium diboride under high pressure. Applied Physics Letters, 2014, 104, .	3.3	4

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163	Lattice stress states of superhard tungsten tetraboride from radial x-ray diffraction under nonhydrostatic compression. Physical Review B, 2014, 90, .	3.2	34
164	Hybrid Solar Cells: Materials, Interfaces, and Devices. Springer Series in Materials Science, 2014, , 357-387.	0.6	1
165	Highly dispersible polypyrrole nanospheres for advanced nanocomposite ultrafiltration membranes. Materials Horizons, 2014, 1, 58-64.	12.2	55
166	Hardness and fracture toughness of thermoelectric La3â^'x Te4. Journal of Materials Science, 2014, 49, 1150-1156.	3.7	29
167	Graphene closer to fruition. Nature Materials, 2014, 13, 328-329.	27.5	28
168	Vapor-Phase Polymerization of Nanofibrillar Poly(3,4-ethylenedioxythiophene) for Supercapacitors. ACS Nano, 2014, 8, 1500-1510.	14.6	217
169	Integration of molecular and enzymatic catalysts on graphene for biomimetic generation of antithrombotic species. Nature Communications, 2014, 5, 3200.	12.8	90
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