

Richard B Kaner

List of Publications by Year in descending order

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papers

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times ranked

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#	ARTICLE	IF	CITATIONS
1	Crystalline tetra-aniline with chloride interactions towards a biocompatible supercapacitor. <i>Materials Horizons</i> , 2022, 9, 383-392.	6.4	18
2	Liquidâ€Metalâ€Enabled Mechanicalâ€Energyâ€Induced CO ₂ Conversion. <i>Advanced Materials</i> , 2022, 34, e2105789.	11.1	58
3	Thin-Film Composite Membranes with a Hybrid Dimensional Titania Interlayer for Ultrapermearable Nanofiltration. <i>Nano Letters</i> , 2022, 22, 1039-1046.	4.5	37
4	Gold Sunflower Microelectrode Arrays with Dendritic Nanostructures on the Lateral Surfaces for Antireflection and Surface-Enhanced Raman Scattering. <i>ACS Applied Nano Materials</i> , 2022, 5, 1873-1890.	2.4	12
5	Ultrapermearable nanofiltration membranes with tunable selectivity fabricated with polyaniline nanofibers. <i>Journal of Materials Chemistry A</i> , 2022, 10, 4392-4401.	5.2	13
6	Oscillatory bifurcation patterns initiated by seeded surface solidification of liquid metals. , 2022, 1, 158-169.		15
7	Trilayer Metalâ€Organic Frameworks as Multifunctional Electrocatalysts for Energy Conversion and Storage Applications. <i>Journal of the American Chemical Society</i> , 2022, 144, 3411-3428.	6.6	142
8	A Readily Scalable, Clinically Demonstrated, Antibiofouling Zwitterionic Surface Treatment for Implantable Medical Devices. <i>Advanced Materials</i> , 2022, 34, e2200254.	11.1	18
9	Hardening Effects in Superhard Transition-Metal Borides. <i>Accounts of Materials Research</i> , 2022, 3, 100-109.	5.9	20
10	Macroâ€and Nanoâ€Porous 3Dâ€Hierarchical Carbon Lattices for Extraordinarily High Capacitance Supercapacitors. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	25
11	Low Temperature Nano Mechano-electrocatalytic CH ₄ Conversion. <i>ACS Nano</i> , 2022, 16, 8684-8693.	7.3	19
12	A Readily Scalable, Clinically Demonstrated, Antibiofouling Zwitterionic Surface Treatment for Implantable Medical Devices (Adv. Mater. 20/2022). <i>Advanced Materials</i> , 2022, 34, .	11.1	1
13	Macroporous Graphene Frameworks for Sensing and Supercapacitor Applications. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	35
14	Reverse osmosis membrane compaction and embossing at ultra-high pressure operation. <i>Desalination</i> , 2022, 537, 115875.	4.0	15
15	Enhanced Hardening Effects on Molybdenum-Doped WB ₂ and WB ₂ â€SiC/B ₄ C Composites. <i>Chemistry of Materials</i> , 2022, 34, 5461-5470.	3.2	2
16	A 3Dâ€Printed, Freestanding Carbon Lattice for Sodium Ion Batteries. <i>Small</i> , 2022, 18, .	5.2	22
17	Low-temperature liquid platinum catalyst. <i>Nature Chemistry</i> , 2022, 14, 935-941.	6.6	61
18	Laserâ€Scribed Grapheneâ€Polyaniline Microsupercapacitor for Internetâ€ofâ€Things Applications. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	27

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19	Self-Deposition of 2D Molybdenum Sulfides on Liquid Metals. <i>Advanced Functional Materials</i> , 2021, 31, 2005866.	7.8	41
20	Unique surface patterns emerging during solidification of liquid metal alloys. <i>Nature Nanotechnology</i> , 2021, 16, 431-439.	15.6	104
21	Ultrafast rechargeable Zn micro-batteries endowing a wearable solar charging system with high overall efficiency. <i>Energy and Environmental Science</i> , 2021, 14, 1602-1611.	15.6	64
22	Niobium pentoxide based materials for high rate rechargeable electrochemical energy storage. <i>Materials Horizons</i> , 2021, 8, 1130-1152.	6.4	51
23	Bioinspired polydopamine supported on oxygen-functionalized carbon cloth as a high-performance 1.2 V aqueous symmetric metal-free supercapacitor. <i>Journal of Materials Chemistry A</i> , 2021, 9, 7712-7725.	5.2	20
24	Conducting Polyaniline for Antifouling Ultrafiltration Membranes: Solutions and Challenges. <i>Nano Letters</i> , 2021, 21, 3699-3707.	4.5	30
25	Assembly of Nanofluidic MXene Fibers with Enhanced Ionic Transport and Capacitive Charge Storage by Flake Orientation. <i>ACS Nano</i> , 2021, 15, 7821-7832.	7.3	83
26	Self-healing flexible/stretchable energy storage devices. <i>Materials Today</i> , 2021, 44, 78-104.	8.3	85
27	Graphene's Role in Emerging Trends of Capacitive Energy Storage. <i>Small</i> , 2021, 17, e2006875.	5.2	28
28	Laser-carbonization: Peering into the formation of micro-thermally produced (N-doped)carbons. <i>Carbon</i> , 2021, 176, 500-510.	5.4	16
29	3D Graphene Network with Covalently Grafted Aniline Tetramer for Ultralong-Life Supercapacitors. <i>Advanced Functional Materials</i> , 2021, 31, 2102397.	7.8	48
30	Facile Fabrication of Multivalent VO ₂ /Graphene Nanocomposite Electrodes for High-Energy-Density Symmetric Supercapacitors. <i>Advanced Energy Materials</i> , 2021, 11, 2100768.	10.2	40
31	A multipronged approach for systematic in vitro quantification of catheter-associated biofilms. <i>Journal of Hazardous Materials Letters</i> , 2021, 2, 100032.	2.0	3
32	Polyaniline-Lignin Interpenetrating Network for Supercapacitive Energy Storage. <i>Nano Letters</i> , 2021, 21, 9485-9493.	4.5	45
33	Liquid metal enabled continuous flow reactor: A proof-of-concept. <i>Matter</i> , 2021, 4, 4022-4041.	5.0	20
34	Self-Assembly and Cross-Linking of Conducting Polymers into 3D Hydrogel Electrodes for Supercapacitor Applications. <i>ACS Applied Energy Materials</i> , 2020, 3, 923-932.	2.5	73
35	In-Operando Calorimetric Measurements for Activated Carbon Electrodes in Ionic Liquid Electrolytes under Large Potential Windows. <i>ChemSusChem</i> , 2020, 13, 1013-1026.	3.6	19
36	How permeable could a reverse osmosis membrane be if it was specifically developed for uncharged organic solute rejection?. <i>AWWA Water Science</i> , 2020, 2, e1189.	1.0	4

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37	Toward High-Performance Triboelectric Nanogenerators by Engineering Interfaces at the Nanoscale: Looking into the Future Research Roadmap. <i>Advanced Materials Technologies</i> , 2020, 5, 2000520.	3.0	27
38	Enhancing Polyvalent Cation Rejection Using Perfluorophenylazide-Grafted-Copolymer Membrane Coatings. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 42030-42040.	4.0	11
39	Fjord-Edge Graphene Nanoribbons with Site-Specific Nitrogen Substitution. <i>Journal of the American Chemical Society</i> , 2020, 142, 18093-18102.	6.6	24
40	Enhancing cycling stability of tungsten oxide supercapacitor electrodes via a boron cluster-based molecular cross-linking approach. <i>Journal of Materials Chemistry A</i> , 2020, 8, 18015-18023.	5.2	13
41	Performance, Energy and Cost of Produced Water Treatment by Chemical and Electrochemical Coagulation. <i>Water (Switzerland)</i> , 2020, 12, 3426.	1.2	17
42	On-Chip Chemiresistive Sensor Array for On-Road NO _x Monitoring with Quantification. <i>Advanced Science</i> , 2020, 7, 2002014.	5.6	19
43	Nucleation and Growth of Polyaniline Nanofibers onto Liquid Metal Nanoparticles. <i>Chemistry of Materials</i> , 2020, 32, 4808-4819.	3.2	75
44	3D Crumpled Ultrathin 1T MoS ₂ for Inkjet Printing of Mg-Ion Asymmetric Micro-supercapacitors. <i>ACS Nano</i> , 2020, 14, 7308-7318.	7.3	100
45	Ultrapermeable Organic Solvent Nanofiltration Membranes with Precisely Tailored Support Layers Fabricated Using Thin-Film Liftoff. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 30796-30804.	4.0	20
46	Liquid-Metal-Templated Synthesis of 2D Graphitic Materials at Room Temperature. <i>Advanced Materials</i> , 2020, 32, e2001997.	11.1	63
47	Exploration of Advanced Electrode Materials for Approaching High-Performance Nickel-Based Superbatteries. <i>Small</i> , 2020, 16, e2001340.	5.2	26
48	Nanostructured Graphene Oxide Composite Membranes with Ultrapermeability and Mechanical Robustness. <i>Nano Letters</i> , 2020, 20, 2209-2218.	4.5	41
49	Crystalline Liquid-like Behavior: Surface-Induced Secondary Grain Growth of Photovoltaic Perovskite Thin Film. <i>Journal of the American Chemical Society</i> , 2019, 141, 13948-13953.	6.6	163
50	Synthesis and High-Pressure Mechanical Properties of Superhard Rhenium/Tungsten Diboride Nanocrystals. <i>ACS Nano</i> , 2019, 13, 10036-10048.	7.3	12
51	Next-Generation Asymmetric Membranes Using Thin-Film Liftoff. <i>Nano Letters</i> , 2019, 19, 5036-5043.	4.5	28
52	Nile Blue Functionalized Graphene Aerogel as a Pseudocapacitive Negative Electrode Material across the Full pH Range. <i>ACS Nano</i> , 2019, 13, 12567-12576.	7.3	66
53	Advantages of eutectic alloys for creating catalysts in the realm of nanotechnology-enabled metallurgy. <i>Nature Communications</i> , 2019, 10, 4645.	5.8	76
54	Printable magnesium-ion quasi-solid-state asymmetric supercapacitors for flexible solar-charging integrated units. <i>Nature Communications</i> , 2019, 10, 4913.	5.8	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.	2.0	33
56	Integrated Triboelectric Nanogenerators in the Era of the Internet of Things. Advanced Science, 2019, 6, 1802230.	5.6	174
57	Understanding the mechanism of hardness enhancement in tantalum-substituted tungsten monoboride solid solutions. Journal of Applied Physics, 2019, 125, .	1.1	9
58	Catalytic Effects of Aniline Polymerization Assisted by Oligomers. ACS Catalysis, 2019, 9, 6596-6606.	5.5	6
59	Carbon Nanodots for Capacitor Electrodes. Trends in Chemistry, 2019, 1, 858-868.	4.4	30
60	Patching laser-reduced graphene oxide with carbon nanodots. Nanoscale, 2019, 11, 12712-12719.	2.8	23
61	Self-Assembled Functionally Graded Graphene Films with Tunable Compositions and Their Applications in Transient Electronics and Actuation. ACS Applied Materials & Interfaces, 2019, 11, 23463-23473.	4.0	10
62	Synthesis and Characterization of Single-Phase Metal Dodecaboride Solid Solutions: Zr _{1-x} Y _x B ₁₂ and Zr _{1-x} U _x B ₁₂ . Journal of the American Chemical Society, 2019, 141, 9047-9062.	6.6	15
63	Direct grafting of tetraaniline <i>via</i> perfluorophenylazide photochemistry to create antifouling, low bio-adhesion surfaces. Chemical Science, 2019, 10, 4445-4457.	3.7	16
64	All printable snow-based triboelectric nanogenerator. Nano Energy, 2019, 60, 17-25.	8.2	42
65	Radial X-Ray Diffraction Study of Superhard Early Transition Metal Dodecaborides under High Pressure. Advanced Functional Materials, 2019, 29, 1900293.	7.8	12
66	Graphene/oligoaniline based supercapacitors: Towards conducting polymer materials with high rate charge storage. Energy Storage Materials, 2019, 19, 137-147.	9.5	39
67	Fire-retardant, self-extinguishing triboelectric nanogenerators. Nano Energy, 2019, 59, 336-345.	8.2	61
68	Towards establishing standard performance metrics for batteries, supercapacitors and beyond. Chemical Society Reviews, 2019, 48, 1272-1341.	18.7	824
69	Carbon Nanodots: Laser-Assisted Lattice Recovery of Graphene by Carbon Nanodot Incorporation (Small 52/2019). Small, 2019, 15, 1970285.	5.2	2
70	Laser-Assisted Lattice Recovery of Graphene by Carbon Nanodot Incorporation. Small, 2019, 15, e1904918.	5.2	11
71	Fast response electrochemical capacitor electrodes created by laser-reduction of carbon nanodots. Materials Today Energy, 2019, 11, 114-119.	2.5	19
72	Asymmetric supercapacitors: An alternative to activated carbon negative electrodes based on earth abundant elements. Materials Today Energy, 2019, 12, 26-36.	2.5	63

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73	Microscopic investigation of local structural and electronic properties of tungsten tetraboride: a superhard metallic material. <i>Journal of Materials Science</i> , 2019, 54, 3547-3557.	1.7	7
74	Understanding How Bonding Controls Strength Anisotropy in Hard Materials by Comparing the High-Pressure Behavior of Orthorhombic and Tetragonal Tungsten Monoboride. <i>Journal of Physical Chemistry C</i> , 2018, 122, 5647-5656.	1.5	10
75	A molecular cross-linking approach for hybrid metal oxides. <i>Nature Materials</i> , 2018, 17, 341-348.	13.3	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. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 15609-15615.	4.0	69
77	Effects of Dodecaboride-Forming Metals on the Properties of Superhard Tungsten Tetraboride. <i>Chemistry of Materials</i> , 2018, 30, 3559-3570.	3.2	24
78	Investigation of ternary metal dodecaborides (M ₁ M ₂ M ₃)B ₁₂ (M ₁ , M ₂ and Tj ETQ 0 0 0 rg BT/Overlock	4.0	37
79	Hollow Pt-Functionalized SnO ₂ Hemipill Network Formation Using a Bacterial Skeleton for the Noninvasive Diagnosis of Diabetes. <i>ACS Sensors</i> , 2018, 3, 661-669.	4.0	37
80	Three-dimensional design and fabrication of reduced graphene oxide/polyaniline composite hydrogel electrodes for high performance electrochemical supercapacitors. <i>Nanotechnology</i> , 2018, 29, 175402.	1.3	47
81	Synthesis and characterization of aluminum diboride products using ²⁷ Al, ¹¹ B NMR and ab initio studies. <i>Journal of Materials Science</i> , 2018, 53, 3309-3322.	1.7	4
82	A Simple Route to Porous Graphene from Carbon Nanodots for Supercapacitor Applications. <i>Advanced Materials</i> , 2018, 30, 1704449.	11.1	302
83	Compact, flexible conducting polymer/graphene nanocomposites for supercapacitors of high volumetric energy density. <i>Composites Science and Technology</i> , 2018, 160, 50-59.	3.8	62
84	An integrated electrochemical device based on earth-abundant metals for both energy storage and conversion. <i>Energy Storage Materials</i> , 2018, 11, 282-293.	9.5	82
85	The use of an electrocatalytic redox electrolyte for pushing the energy density boundary of a flexible polyaniline electrode to a new limit. <i>Nano Energy</i> , 2018, 44, 489-498.	8.2	105
86	Embedding hollow Co ₃ O ₄ nanoboxes into a three-dimensional macroporous graphene framework for high-performance energy storage devices. <i>Nano Research</i> , 2018, 11, 2836-2846.	5.8	31
87	Laser-reduced graphene-oxide/ferrocene: a 3-D redox-active composite for supercapacitor electrodes. <i>Journal of Materials Chemistry A</i> , 2018, 6, 20463-20472.	5.2	43
88	Carbon Nanodots as Feedstock for a Uniform Hematite@Graphene Nanocomposite. <i>Small</i> , 2018, 14, e1803656.	5.2	23
89	Optically Active Poly[2-(<i>sec</i> -butyl)aniline] Nanofibers Prepared via Enantioselective Polymerization. <i>ACS Omega</i> , 2018, 3, 18895-18905.	1.6	5
90	Superhard Tungsten Diboride-Based Solid Solutions. <i>Inorganic Chemistry</i> , 2018, 57, 15305-15313.	1.9	36

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91	Thionine Functionalized 3D Graphene Aerogel: Combining Simplicity and Efficiency in Fabrication of a Metal-Free Redox Supercapacitor. <i>Advanced Energy Materials</i> , 2018, 8, 1802869.	10.2	153
92	Design and Mechanisms of Asymmetric Supercapacitors. <i>Chemical Reviews</i> , 2018, 118, 9233-9280.	23.0	2,379
93	Silicon expansion at the service of safety – A reversible potential-dependent switch for safer batteries. <i>Materials Today Energy</i> , 2018, 10, 89-97.	2.5	5
94	Investigation of Hardness of Ternary Borides of the $YCrB_4$, Y_2ReB_6 , Y_3ReB_7 , and YMo_3B_7 Structural Types. <i>Chemistry of Materials</i> , 2018, 30, 6494-6502.	3.2	17
95	Perspective: Superhard metal borides: A look forward. <i>APL Materials</i> , 2018, 6, 070901.	2.2	77
96	High-Throughput Continuous Production of Shear-Exfoliated 2D Layered Materials using Compressible Flows. <i>Advanced Materials</i> , 2018, 30, e1800200.	11.1	51
97	Roll-to-Roll Functionalization of Polyolefin Separators for High-Performance Lithium-Ion Batteries. <i>ACS Applied Energy Materials</i> , 2018, 1, 3292-3300.	2.5	21
98	Polyaniline nanofibers: broadening applications for conducting polymers. <i>Chemical Society Reviews</i> , 2017, 46, 1510-1525.	18.7	484
99	Wafer-scale two-dimensional semiconductors from printed oxide skin of liquid metals. <i>Nature Communications</i> , 2017, 8, 14482.	5.8	219
100	Next-Generation Activated Carbon Supercapacitors: A Simple Step in Electrode Processing Leads to Remarkable Gains in Energy Density. <i>Advanced Functional Materials</i> , 2017, 27, 1605745.	7.8	220
101	Ultrathin Graphene-Protein Supercapacitors for Miniaturized Bioelectronics. <i>Advanced Energy Materials</i> , 2017, 7, 1700358.	10.2	88
102	Calligraphy-inspired brush written foldable supercapacitors. <i>Nano Energy</i> , 2017, 38, 428-437.	8.2	26
103	A Surprising Failure Mechanism in Symmetric Supercapacitors at High Voltages. <i>ChemElectroChem</i> , 2017, 4, 2660-2668.	1.7	26
104	Aluminum-Ion Intercalation Supercapacitors with Ultrahigh Areal Capacitance and Highly Enhanced Cycling Stability: Power Supply for Flexible Electrochromic Devices. <i>Small</i> , 2017, 13, 1700380.	5.2	107
105	Rediscovering the Crystal Chemistry of Borides. <i>Advanced Materials</i> , 2017, 29, 1604506.	11.1	260
106	^{11}B NMR Study of WB ₂ . <i>Journal of Physical Chemistry C</i> , 2017, 121, 1315-1320.	1.5	4
107	Synthesis of $N = 8$ Armchair Graphene Nanoribbons from Four Distinct Polydiacetylenes. <i>Journal of the American Chemical Society</i> , 2017, 139, 15878-15890.	6.6	78
108	Wafer-Scale Synthesis of Semiconducting SnO Monolayers from Interfacial Oxide Layers of Metallic Liquid Tin. <i>ACS Nano</i> , 2017, 11, 10974-10983.	7.3	122

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109	A liquid metal reaction environment for the room-temperature synthesis of atomically thin metal oxides. <i>Science</i> , 2017, 358, 332-335.	6.0	576
110	Organic dispersion of polyaniline and single-walled carbon nanotubes and polyblends with poly(methyl methacrylate). <i>Polymer</i> , 2017, 129, 1-4.	1.8	17
111	Flexible quasi-solid-state planar micro-supercapacitor based on cellular graphene films. <i>Materials Horizons</i> , 2017, 4, 1145-1150.	6.4	222
112	A wide potential window aqueous supercapacitor based on LiMn ₂ O ₄ /rGO nanocomposite. <i>Journal of the Iranian Chemical Society</i> , 2017, 14, 2579-2590.	1.2	15
113	Furthering Our Understanding of the Doping Mechanism in Conjugated Polymers Using Tetraaniline. <i>Macromolecules</i> , 2017, 50, 5892-5897.	2.2	28
114	Boosting the capacitance and voltage of aqueous supercapacitors via redox charge contribution from both electrode and electrolyte. <i>Nano Today</i> , 2017, 15, 15-25.	6.2	108
115	Rapid Prototyping of a Low-cost Graphene-based Impedimetric Biosensor. <i>Procedia Technology</i> , 2017, 27, 274-276.	1.1	2
116	Lithium-Ion Insertion Properties of Solution-Exfoliated Germanane. <i>ACS Nano</i> , 2017, 11, 7995-8001.	7.3	63
117	Fabrication of Graphene/Polyimide Nanocomposites with Superior Electrical Conductivity. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 43230-43238.	4.0	47
118	Effects of Variable Boron Concentration on the Properties of Superhard Tungsten Tetraboride. <i>Journal of the American Chemical Society</i> , 2017, 139, 17120-17127.	6.6	35
119	Characterization of Aniline Tetramer by MALDI TOF Mass Spectrometry upon Oxidative and Reductive Cycling. <i>Polymers</i> , 2016, 8, 401.	2.0	19
120	Superhard Monoborides: Hardness Enhancement through Alloying in W _{1-x} Ta _x B. <i>Advanced Materials</i> , 2016, 28, 6993-6998.	11.1	75
121	Superhard W _{0.5} Ta _{0.5} B nanowires prepared at ambient pressure. <i>Applied Physics Letters</i> , 2016, 109, .	1.5	18
122	Synthesis and applications of conducting polymer nanofibers. <i>MRS Bulletin</i> , 2016, 41, 785-790.	1.7	3
123	Synthesis of sub-millimeter Bi-/multi-layer graphene by designing a sandwiched structure using copper foils. <i>Applied Physics Letters</i> , 2016, 109, .	1.5	3
124	Stabilization of LnB ₁₂ (Ln = Gd, Sm, Nd, and Pr) in Zr _{1-x} Ln _x B ₁₂ under Ambient Pressure. <i>Inorganic Chemistry</i> , 2016, 55, 12419-12426.	1.9	20
125	An etching phenomenon exhibited by chemical vapor deposited graphene on a copper pocket. <i>Carbon</i> , 2016, 106, 279-283.	5.4	11
126	Extrinsic Hardening of Superhard Tungsten Tetraboride Alloys with Group 4 Transition Metals. <i>Journal of the American Chemical Society</i> , 2016, 138, 5714-5721.	6.6	64

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127	Stabilization of HfB ₁₂ in Y ⁴⁺ Hf ₂ B ₁₂ under Ambient Pressure. <i>Inorganic Chemistry</i> , 2016, 55, 5051-5055.	1.9	33
128	Synthesis of Graphene Nanoribbons via the Topochemical Polymerization and Subsequent Aromatization of a Diacetylene Precursor. <i>Chem</i> , 2016, 1, 78-90.	5.8	87
129	Superhard Rhenium/Tungsten Diboride Solid Solutions. <i>Journal of the American Chemical Society</i> , 2016, 138, 14398-14408.	6.6	48
130	Cadmium nanoclusters in a protein matrix: Synthesis, characterization, and application in targeted drug delivery and cellular imaging. <i>Nano Research</i> , 2016, 9, 3229-3246.	5.8	40
131	Excitation dependent bidirectional electron transfer in phthalocyanine-functionalised MoS ₂ nanosheets. <i>Nanoscale</i> , 2016, 8, 16276-16283.	2.8	62
132	Superhard Mixed Transition Metal Dodecaborides. <i>Chemistry of Materials</i> , 2016, 28, 6605-6612.	3.2	57
133	Graphene for batteries, supercapacitors and beyond. <i>Nature Reviews Materials</i> , 2016, 1, .	23.3	925
134	3D Freeze-Casting of Cellular Graphene Films for Ultrahigh-Power-Density Supercapacitors. <i>Advanced Materials</i> , 2016, 28, 6719-6726.	11.1	390
135	Synthesis of NiMnO ₃ /C nano-composite electrode materials for electrochemical capacitors. <i>Nanotechnology</i> , 2016, 27, 315401.	1.3	51
136	Low-Fouling Antibacterial Reverse Osmosis Membranes via Surface Grafting of Graphene Oxide. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 14334-14338.	4.0	113
137	Lithium-silica nanosalt as a low-temperature electrolyte additive for lithium-ion batteries. <i>Current Applied Physics</i> , 2016, 16, 611-617.	1.1	26
138	¹¹ B NMR Spectral and Nuclear Spin-Lattice Relaxation Analyses of ReB ₂ . <i>Journal of Physical Chemistry C</i> , 2016, 120, 2901-2907.	1.5	9
139	Ultraincompressible, Superhard Materials. <i>Annual Review of Materials Research</i> , 2016, 46, 465-485.	4.3	92
140	Enhancing the Hardness of Superhard Transition-Metal Borides: Molybdenum-Doped Tungsten Tetraboride. <i>Chemistry of Materials</i> , 2016, 28, 632-637.	3.2	60
141	LATE-BREAKING ABSTRACT: Activity limitation and exacerbations in smokers with emphysema on CT but preserved pulmonary function. <i>SPIROMICS</i> , 2016, , .		0
142	2D MoS ₂ PDMS Nanocomposites for NO ₂ Separation. <i>Small</i> , 2015, 11, 5035-5040.	5.2	59
143	Flash Converted Graphene for Ultra-High Power Supercapacitors. <i>Advanced Energy Materials</i> , 2015, 5, 1500786.	10.2	80
144	Enhanced Gas Permeation through Graphene Nanocomposites. <i>Journal of Physical Chemistry C</i> , 2015, 119, 13700-13712.	1.5	70

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145	Fabrication of high power LiNi _{0.5} Mn _{1.5} O ₄ battery cathodes by nanostructuring of electrode materials. RSC Advances, 2015, 5, 50433-50439.	1.7	12
146	¹⁰ B and ¹¹ B NMR Study of Elemental Boron. Journal of Physical Chemistry C, 2015, 119, 13807-13813.	1.5	16
147	Designing 3D Highly Ordered Nanoporous CuO Electrodes for High-Performance Asymmetric Supercapacitors. ACS Applied Materials & Interfaces, 2015, 7, 4851-4860.	4.0	340
148	High Surface Area Tunnels in Hexagonal WO ₃ . Nano Letters, 2015, 15, 4834-4838.	4.5	144
149	Interfacial chemical oxidative synthesis of multifunctional polyfluoranthene. Chemical Science, 2015, 6, 2087-2101.	3.7	26
150	Highly Ordered Mesoporous CuCo ₂ O ₄ Nanowires, a Promising Solution for High-Performance Supercapacitors. Chemistry of Materials, 2015, 27, 3919-3926.	3.2	353
151	Graphene-based materials for flexible supercapacitors. Chemical Society Reviews, 2015, 44, 3639-3665.	18.7	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.	3.3	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.	3.3	82
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