

Richard B Kaner

List of Publications by Year in Descending Order

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

421
papers

65,906
citations

105
h-index

253
g-index

469
ext. papers

71,727
ext. citations

11.7
avg, IF

8.21
L-index

#	Paper	IF	Citations
421	Oscillatory bifurcation patterns initiated by seeded surface solidification of liquid metals 2022 , 1, 158-169		4
420	Trilayer Metal-Organic Frameworks as Multifunctional Electrocatalysts for Energy Conversion and Storage Applications.. <i>Journal of the American Chemical Society</i> , 2022 ,	16.4	12
419	A readily scalable, clinically demonstrated, antibiofouling zwitterionic surface treatment for implantable medical devices.. <i>Advanced Materials</i> , 2022 , e2200254	24	1
418	Hardening Effects in Superhard Transition-Metal Borides. <i>Accounts of Materials Research</i> , 2022 , 3, 100-109	9.5	1
417	A Readily Scalable, Clinically Demonstrated, Antibiofouling Zwitterionic Surface Treatment for Implantable Medical Devices (Adv. Mater. 20/2022). <i>Advanced Materials</i> , 2022 , 34, 2270152	24	
416	Reverse osmosis membrane compaction and embossing at ultra-high pressure operation. <i>Desalination</i> , 2022 , 537, 115875	10.3	0
415	Polyaniline-Lignin Interpenetrating Network for Supercapacitive Energy Storage. <i>Nano Letters</i> , 2021 , 21, 9485-9493	11.5	8
414	Liquid metal enabled continuous flow reactor: A proof-of-concept. <i>Matter</i> , 2021 , 4, 4022-4041	12.7	8
413	Liquid-Metal-Enabled Mechanical-Energy-Induced CO Conversion. <i>Advanced Materials</i> , 2021 , e2105789	24	7
412	Conducting Polyaniline for Antifouling Ultrafiltration Membranes: Solutions and Challenges. <i>Nano Letters</i> , 2021 , 21, 3699-3707	11.5	6
411	Assembly of Nanofluidic MXene Fibers with Enhanced Ionic Transport and Capacitive Charge Storage by Flake Orientation. <i>ACS Nano</i> , 2021 , 15, 7821-7832	16.7	27
410	Self-healing flexible/stretchable energy storage devices. <i>Materials Today</i> , 2021 , 44, 78-104	21.8	23
409	Graphene's Role in Emerging Trends of Capacitive Energy Storage. <i>Small</i> , 2021 , 17, e2006875	11	10
408	Laser-carbonization: Peering into the formation of micro-thermally produced (N-doped)carbons. <i>Carbon</i> , 2021 , 176, 500-510	10.4	7
407	3D Graphene Network with Covalently Grafted Aniline Tetramer for Ultralong-Life Supercapacitors. <i>Advanced Functional Materials</i> , 2021 , 31, 2102397	15.6	16
406	Facile Fabrication of Multivalent VOx/Graphene Nanocomposite Electrodes for High-Energy-Density Symmetric Supercapacitors. <i>Advanced Energy Materials</i> , 2021 , 11, 2100768	21.8	10
405	Self-Deposition of 2D Molybdenum Sulfides on Liquid Metals. <i>Advanced Functional Materials</i> , 2021 , 31, 2005866	15.6	22

404	Unique surface patterns emerging during solidification of liquid metal alloys. <i>Nature Nanotechnology</i> , 2021 , 16, 431-439	28.7	46
403	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	35.4	19
402	Niobium pentoxide based materials for high rate rechargeable electrochemical energy storage. <i>Materials Horizons</i> , 2021 , 8, 1130-1152	14.4	19
401	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 ¹³	13	7
400	A multipronged approach for systematic in vitro quantification of catheter-associated biofilms. <i>Journal of Hazardous Materials Letters</i> , 2021 , 2, 100032	3.3	2
399	Crystalline tetra-aniline with chloride interactions towards a biocompatible supercapacitor. <i>Materials Horizons</i> , 2021 ,	14.4	2
398	On-Chip Chemiresistive Sensor Array for On-Road NO Monitoring with Quantification. <i>Advanced Science</i> , 2020 , 7, 2002014	13.6	10
397	Nucleation and Growth of Polyaniline Nanofibers onto Liquid Metal Nanoparticles. <i>Chemistry of Materials</i> , 2020 , 32, 4808-4819	9.6	30
396	3D Crumpled Ultrathin 1T MoS for Inkjet Printing of Mg-Ion Asymmetric Micro-supercapacitors. <i>ACS Nano</i> , 2020 , 14, 7308-7318	16.7	55
395	Ultraporous Organic Solvent Nanofiltration Membranes with Precisely Tailored Support Layers Fabricated Using Thin-Film Liftoff. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 30796-30804	9.5	9
394	Liquid-Metal-Templated Synthesis of 2D Graphitic Materials at Room Temperature. <i>Advanced Materials</i> , 2020 , 32, e2001997	24	44
393	Exploration of Advanced Electrode Materials for Approaching High-Performance Nickel-Based Superbatteries. <i>Small</i> , 2020 , 16, e2001340	11	13
392	Nanostructured Graphene Oxide Composite Membranes with Ultraporousness and Mechanical Robustness. <i>Nano Letters</i> , 2020 , 20, 2209-2218	11.5	16
391	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	6.1	39
390	In Operando Calorimetric Measurements for Activated Carbon Electrodes in Ionic Liquid Electrolytes under Large Potential Windows. <i>ChemSusChem</i> , 2020 , 13, 1013-1026	8.3	8
389	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	1.6	1
388	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	6.8	16
387	Enhancing Polyvalent Cation Rejection Using Perfluorophenylazide-Grafted-Copolymer Membrane Coatings. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 42030-42040	9.5	4

386	Fjord-Edge Graphene Nanoribbons with Site-Specific Nitrogen Substitution. <i>Journal of the American Chemical Society</i> , 2020 , 142, 18093-18102	16.4	11
385	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	13	4
384	Performance, Energy and Cost of Produced Water Treatment by Chemical and Electrochemical Coagulation. <i>Water (Switzerland)</i> , 2020 , 12, 3426	3	4
383	Understanding the mechanism of hardness enhancement in tantalum-substituted tungsten monoboride solid solutions. <i>Journal of Applied Physics</i> , 2019 , 125, 082529	2.5	8
382	Catalytic Effects of Aniline Polymerization Assisted by Oligomers. <i>ACS Catalysis</i> , 2019 , 9, 6596-6606	13.1	1
381	Carbon Nanodots for Capacitor Electrodes. <i>Trends in Chemistry</i> , 2019 , 1, 858-868	14.8	15
380	Patching laser-reduced graphene oxide with carbon nanodots. <i>Nanoscale</i> , 2019 , 11, 12712-12719	7.7	12
379	Self-Assembled Functionally Graded Graphene Films with Tunable Compositions and Their Applications in Transient Electronics and Actuation. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 23463-23473	9.5	6
378	Synthesis and Characterization of Single-Phase Metal Dodecaboride Solid Solutions: ZrY B and ZrU B. <i>Journal of the American Chemical Society</i> , 2019 , 141, 9047-9062	16.4	11
377	Direct grafting of tetraaniline perfluorophenylazide photochemistry to create antifouling, low bio-adhesion surfaces. <i>Chemical Science</i> , 2019 , 10, 4445-4457	9.4	11
376	All printable snow-based triboelectric nanogenerator. <i>Nano Energy</i> , 2019 , 60, 17-25	17.1	27
375	Radial X-Ray Diffraction Study of Superhard Early Transition Metal Dodecaborides under High Pressure. <i>Advanced Functional Materials</i> , 2019 , 29, 1900293	15.6	9
374	Graphene/oligoaniline based supercapacitors: Towards conducting polymer materials with high rate charge storage. <i>Energy Storage Materials</i> , 2019 , 19, 137-147	19.4	26
373	Fire-retardant, self-extinguishing triboelectric nanogenerators. <i>Nano Energy</i> , 2019 , 59, 336-345	17.1	30
372	Towards establishing standard performance metrics for batteries, supercapacitors and beyond. <i>Chemical Society Reviews</i> , 2019 , 48, 1272-1341	58.5	461
371	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	16.4	96
370	Synthesis and High-Pressure Mechanical Properties of Superhard Rhenium/Tungsten Diboride Nanocrystals. <i>ACS Nano</i> , 2019 , 13, 10036-10048	16.7	4
369	Next-Generation Asymmetric Membranes Using Thin-Film Liftoff. <i>Nano Letters</i> , 2019 , 19, 5036-5043	11.5	16

368	Nile Blue Functionalized Graphene Aerogel as a Pseudocapacitive Negative Electrode Material across the Full pH Range. <i>ACS Nano</i> , 2019 , 13, 12567-12576	16.7	35
367	Advantages of eutectic alloys for creating catalysts in the realm of nanotechnology-enabled metallurgy. <i>Nature Communications</i> , 2019 , 10, 4645	17.4	39
366	Printable magnesium-ion quasi-solid-state asymmetric supercapacitors for flexible solar-charging integrated units. <i>Nature Communications</i> , 2019 , 10, 4913	17.4	90
365	Highly Permeable Polyaniline-Graphene Oxide Nanocomposite Membranes for CO ₂ Separations. <i>ACS Applied Polymer Materials</i> , 2019 , 1, 3233-3241	4.3	25
364	Integrated Triboelectric Nanogenerators in the Era of the Internet of Things. <i>Advanced Science</i> , 2019 , 6, 1802230	13.6	95
363	Carbon Nanodots: Laser-Assisted Lattice Recovery of Graphene by Carbon Nanodot Incorporation (Small 52/2019). <i>Small</i> , 2019 , 15, 1970285	11	1
362	Laser-Assisted Lattice Recovery of Graphene by Carbon Nanodot Incorporation. <i>Small</i> , 2019 , 15, e1904918		4
361	Fast response electrochemical capacitor electrodes created by laser-reduction of carbon nanodots. <i>Materials Today Energy</i> , 2019 , 11, 114-119	7	15
360	Asymmetric supercapacitors: An alternative to activated carbon negative electrodes based on earth abundant elements. <i>Materials Today Energy</i> , 2019 , 12, 26-36	7	38
359	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	4.3	4
358	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	3.8	10
357	A molecular cross-linking approach for hybrid metal oxides. <i>Nature Materials</i> , 2018 , 17, 341-348	27	66
356	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	9.5	49
355	Effects of Dodecaboride-Forming Metals on the Properties of Superhard Tungsten Tetraboride. <i>Chemistry of Materials</i> , 2018 , 30, 3559-3570	9.6	16
354	Investigation of ternary metal dodecaborides (MMM)B (M, M and M = Zr, Y, Hf and Gd). <i>Dalton Transactions</i> , 2018 , 47, 6683-6691	4.3	9
353	Hollow Pt-Functionalized SnO Hemipill Network Formation Using a Bacterial Skeleton for the Noninvasive Diagnosis of Diabetes. <i>ACS Sensors</i> , 2018 , 3, 661-669	9.2	30
352	Three-dimensional design and fabrication of reduced graphene oxide/polyaniline composite hydrogel electrodes for high performance electrochemical supercapacitors. <i>Nanotechnology</i> , 2018 , 29, 175402	3.4	41
351	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	4.3	3

350	A Simple Route to Porous Graphene from Carbon Nanodots for Supercapacitor Applications. <i>Advanced Materials</i> , 2018 , 30, 1704449	24	230
349	Compact, flexible conducting polymer/graphene nanocomposites for supercapacitors of high volumetric energy density. <i>Composites Science and Technology</i> , 2018 , 160, 50-59	8.6	43
348	An integrated electrochemical device based on earth-abundant metals for both energy storage and conversion. <i>Energy Storage Materials</i> , 2018 , 11, 282-293	19.4	59
347	Perspective: Superhard metal borides: A look forward. <i>APL Materials</i> , 2018 , 6, 070901	5.7	50
346	High-Throughput Continuous Production of Shear-Exfoliated 2D Layered Materials using Compressible Flows. <i>Advanced Materials</i> , 2018 , 30, e1800200	24	40
345	Roll-to-Roll Functionalization of Polyolefin Separators for High-Performance Lithium-Ion Batteries. <i>ACS Applied Energy Materials</i> , 2018 , 1, 3292-3300	6.1	11
344	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	17.1	88
343	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	10	25
342	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	13	29
341	Carbon Nanodots as Feedstock for a Uniform Hematite-Graphene Nanocomposite. <i>Small</i> , 2018 , 14, e1803656	15	15
340	Optically Active Poly[2-(-butyl)aniline] Nanofibers Prepared via Enantioselective Polymerization. <i>ACS Omega</i> , 2018 , 3, 18895-18905	3.9	4
339	Superhard Tungsten Diboride-Based Solid Solutions. <i>Inorganic Chemistry</i> , 2018 , 57, 15305-15313	5.1	21
338	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	21.8	94
337	Design and Mechanisms of Asymmetric Supercapacitors. <i>Chemical Reviews</i> , 2018 , 118, 9233-9280	68.1	1396
336	Silicon expansion at the service of safety: A reversible potential-dependent switch for safer batteries. <i>Materials Today Energy</i> , 2018 , 10, 89-97	7	2
335	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. <i>Chemistry of Materials</i> , 2018 , 30, 6494-6502	9.6	12
334	Polyaniline nanofibers: broadening applications for conducting polymers. <i>Chemical Society Reviews</i> , 2017 , 46, 1510-1525	58.5	355
333	Wafer-scale two-dimensional semiconductors from printed oxide skin of liquid metals. <i>Nature Communications</i> , 2017 , 8, 14482	17.4	172

332	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	15.6	174
331	Ultrathin Graphene-Protein Supercapacitors for Miniaturized Bioelectronics. <i>Advanced Energy Materials</i> , 2017 , 7, 1700358	21.8	63
330	Calligraphy-inspired brush written foldable supercapacitors. <i>Nano Energy</i> , 2017 , 38, 428-437	17.1	21
329	A Surprising Failure Mechanism in Symmetric Supercapacitors at High Voltages. <i>ChemElectroChem</i> , 2017 , 4, 2660-2668	4.3	22
328	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	11	76
327	Rediscovering the Crystal Chemistry of Borides. <i>Advanced Materials</i> , 2017 , 29, 1604506	24	187
326	¹¹ B NMR Study of WB ₂ . <i>Journal of Physical Chemistry C</i> , 2017 , 121, 1315-1320	3.8	3
325	Synthesis of N = 8 Armchair Graphene Nanoribbons from Four Distinct Polydiacetylenes. <i>Journal of the American Chemical Society</i> , 2017 , 139, 15878-15890	16.4	57
324	Wafer-Scale Synthesis of Semiconducting SnO Monolayers from Interfacial Oxide Layers of Metallic Liquid Tin. <i>ACS Nano</i> , 2017 , 11, 10974-10983	16.7	80
323	A liquid metal reaction environment for the room-temperature synthesis of atomically thin metal oxides. <i>Science</i> , 2017 , 358, 332-335	33.3	384
322	Organic dispersion of polyaniline and single-walled carbon nanotubes and polyblends with poly(methyl methacrylate). <i>Polymer</i> , 2017 , 129, 1-4	3.9	13
321	Flexible quasi-solid-state planar micro-supercapacitor based on cellular graphene films. <i>Materials Horizons</i> , 2017 , 4, 1145-1150	14.4	150
320	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	2	12
319	Furthering Our Understanding of the Doping Mechanism in Conjugated Polymers Using Tetraaniline. <i>Macromolecules</i> , 2017 , 50, 5892-5897	5.5	18
318	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	17.9	83
317	Rapid Prototyping of a Low-cost Graphene-based Impedimetric Biosensor. <i>Procedia Technology</i> , 2017 , 27, 274-276		2
316	Lithium-Ion Insertion Properties of Solution-Exfoliated Germanane. <i>ACS Nano</i> , 2017 , 11, 7995-8001	16.7	48
315	Fabrication of Graphene-Polyimide Nanocomposites with Superior Electrical Conductivity. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 43230-43238	9.5	29

314	Effects of Variable Boron Concentration on the Properties of Superhard Tungsten Tetraboride. <i>Journal of the American Chemical Society</i> , 2017 , 139, 17120-17127	16.4	26
313	Excitation dependent bidirectional electron transfer in phthalocyanine-functionalised MoS ₂ nanosheets. <i>Nanoscale</i> , 2016 , 8, 16276-16283	7.7	46
312	Superhard Mixed Transition Metal Dodecaborides. <i>Chemistry of Materials</i> , 2016 , 28, 6605-6612	9.6	44
311	Graphene for batteries, supercapacitors and beyond. <i>Nature Reviews Materials</i> , 2016 , 1,	73.3	681
310	3D Freeze-Casting of Cellular Graphene Films for Ultrahigh-Power-Density Supercapacitors. <i>Advanced Materials</i> , 2016 , 28, 6719-26	24	335
309	Synthesis of NiMnO ₃ /C nano-composite electrode materials for electrochemical capacitors. <i>Nanotechnology</i> , 2016 , 27, 315401	3.4	40
308	Low-Fouling Antibacterial Reverse Osmosis Membranes via Surface Grafting of Graphene Oxide. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 14334-8	9.5	84
307	Lithium-silica nanosalt as a low-temperature electrolyte additive for lithium-ion batteries. <i>Current Applied Physics</i> , 2016 , 16, 611-617	2.6	18
306	¹¹ B NMR Spectral and Nuclear Spin Lattice Relaxation Analyses of ReB ₂ . <i>Journal of Physical Chemistry C</i> , 2016 , 120, 2901-2907	3.8	8
305	Ultraincompressible, Superhard Materials. <i>Annual Review of Materials Research</i> , 2016 , 46, 465-485	12.8	73
304	Enhancing the Hardness of Superhard Transition-Metal Borides: Molybdenum-Doped Tungsten Tetraboride. <i>Chemistry of Materials</i> , 2016 , 28, 632-637	9.6	49
303	Characterization of Aniline Tetramer by MALDI TOF Mass Spectrometry upon Oxidative and Reductive Cycling. <i>Polymers</i> , 2016 , 8,	4.5	15
302	Superhard Monoborides: Hardness Enhancement through Alloying in W _{1-x} Ta _x B. <i>Advanced Materials</i> , 2016 , 28, 6993-8	24	60
301	Superhard W _{0.5} Ta _{0.5} B nanowires prepared at ambient pressure. <i>Applied Physics Letters</i> , 2016 , 109, 203107	3.4	16
300	Synthesis and applications of conducting polymer nanofibers. <i>MRS Bulletin</i> , 2016 , 41, 785-790	3.2	3
299	Synthesis of sub-millimeter Bi-/multi-layer graphene by designing a sandwiched structure using copper foils. <i>Applied Physics Letters</i> , 2016 , 109, 123107	3.4	2
298	Stabilization of LnB (Ln = Gd, Sm, Nd, and Pr) in ZrLnB under Ambient Pressure. <i>Inorganic Chemistry</i> , 2016 , 55, 12419-12426	5.1	19
297	An etching phenomenon exhibited by chemical vapor deposited graphene on a copper pocket. <i>Carbon</i> , 2016 , 106, 279-283	10.4	10

296	Extrinsic Hardening of Superhard Tungsten Tetraboride Alloys with Group 4 Transition Metals. <i>Journal of the American Chemical Society</i> , 2016 , 138, 5714-21	16.4	48
295	Stabilization of HfB ₁₂ in Y _{1-x} Hf _x B ₁₂ under Ambient Pressure. <i>Inorganic Chemistry</i> , 2016 , 55, 5051-5	5.1	29
294	Synthesis of Graphene Nanoribbons via the Topochemical Polymerization and Subsequent Aromatization of a Diacetylene Precursor. <i>Chem</i> , 2016 , 1, 78-90	16.2	65
293	Superhard Rhenium/Tungsten Diboride Solid Solutions. <i>Journal of the American Chemical Society</i> , 2016 , 138, 14398-14408	16.4	33
292	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	10	32
291	High Surface Area Tunnels in Hexagonal WO ₃ . <i>Nano Letters</i> , 2015 , 15, 4834-8	11.5	118
290	Interfacial chemical oxidative synthesis of multifunctional polyfluoranthene. <i>Chemical Science</i> , 2015 , 6, 2087-2101	9.4	25
289	Highly Ordered Mesoporous CuCo ₂ O ₄ Nanowires, a Promising Solution for High-Performance Supercapacitors. <i>Chemistry of Materials</i> , 2015 , 27, 3919-3926	9.6	295
288	Graphene-based materials for flexible supercapacitors. <i>Chemical Society Reviews</i> , 2015 , 44, 3639-65	58.5	851
287	Engineering three-dimensional hybrid supercapacitors and microsupercapacitors for high-performance integrated energy storage. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 4233-8	11.5	408
286	Structure of superhard tungsten tetraboride: a missing link between MB ₂ and MB ₁₂ higher borides. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 3223-8	11.5	63
285	Novel chlorine resistant low-fouling ultrafiltration membrane based on a hydrophilic polyaniline derivative. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 8725-8733	13	31
284	Direct preparation and processing of graphene/RuO ₂ nanocomposite electrodes for high-performance capacitive energy storage. <i>Nano Energy</i> , 2015 , 18, 57-70	17.1	145
283	Introducing the micro-super-capacitor laser-etched graphene brings Moore's law to energy storage. <i>IEEE Spectrum</i> , 2015 , 52, 40-45	1.7	3
282	Efficient synthesis of oligofluoranthene nanorods with tunable functionalities. <i>Chemical Science</i> , 2015 , 6, 7190-7200	9.4	14
281	Mechanochemical Synthesis and High Temperature Thermoelectric Properties of Calcium-Doped Lanthanum Telluride LaCaTe. <i>Journal of Materials Chemistry C</i> , 2015 , 3, 10459-10466	7.1	16
280	Exploring hardness enhancement in superhard tungsten tetraboride-based solid solutions using radial X-ray diffraction. <i>Applied Physics Letters</i> , 2015 , 107, 041903	3.4	14
279	Graphene-Assisted Solution Growth of Vertically Oriented Organic Semiconducting Single Crystals. <i>ACS Nano</i> , 2015 , 9, 9486-96	16.7	37

278	A mechanistic study of cross-coupling reactions catalyzed by palladium nanoparticles supported on polyaniline nanofibers. <i>Inorganic Chemistry Frontiers</i> , 2015 , 2, 35-41	6.8	18
277	2D MoS ₂ PDMS Nanocomposites for NO ₂ Separation. <i>Small</i> , 2015 , 11, 5035-40	11	48
276	Flash Converted Graphene for Ultra-High Power Supercapacitors. <i>Advanced Energy Materials</i> , 2015 , 5, 1500786	21.8	68
275	Enhanced Gas Permeation through Graphene Nanocomposites. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 13700-13712	3.8	62
274	Fabrication of high power LiNi _{0.5} Mn _{1.5} O ₄ battery cathodes by nanostructuring of electrode materials. <i>RSC Advances</i> , 2015 , 5, 50433-50439	3.7	10
273	10B and 11B NMR Study of Elemental Boron. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 13807-13813	3.8	14
272	Designing 3D highly ordered nanoporous CuO electrodes for high-performance asymmetric supercapacitors. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 4851-60	9.5	278
271	Vapor-phase polymerization of nanofibrillar poly(3,4-ethylenedioxythiophene) for supercapacitors. <i>ACS Nano</i> , 2014 , 8, 1500-10	16.7	186
270	Integration of molecular and enzymatic catalysts on graphene for biomimetic generation of antithrombotic species. <i>Nature Communications</i> , 2014 , 5, 3200	17.4	83
269	Facile synthesis of nanostructured CuCo ₂ O ₄ as a novel electrode material for high-rate supercapacitors. <i>Chemical Communications</i> , 2014 , 50, 1972-5	5.8	230
268	Scalable antifouling reverse osmosis membranes utilizing perfluorophenyl azide photochemistry. <i>Macromolecular Rapid Communications</i> , 2014 , 35, 1528-33	4.8	27
267	Tunable plasmon resonances in two-dimensional molybdenum oxide nanoflakes. <i>Advanced Materials</i> , 2014 , 26, 3931-7	24	252
266	Direct laser writing of graphene electronics. <i>ACS Nano</i> , 2014 , 8, 8725-9	16.7	111
265	Maintaining Cytocompatibility of Biopolymers Through a Graphene Layer for Electrical Stimulation of Nerve Cells. <i>Advanced Functional Materials</i> , 2014 , 24, 769-776	15.6	36
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