

Fei Wei

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477
papers

43,687
citations

92
h-index

199
g-index

501
ext. papers

47,943
ext. citations

9.9
avg, IF

7.63
L-index

#	Paper	IF	Citations
477	An advanced Ni-Fe layered double hydroxide electrocatalyst for water oxidation. <i>Journal of the American Chemical Society</i> , 2013 , 135, 8452-5	16.4	2084
476	Asymmetric Supercapacitors Based on Graphene/MnO ₂ and Activated Carbon Nanofiber Electrodes with High Power and Energy Density. <i>Advanced Functional Materials</i> , 2011 , 21, 2366-2375	15.6	1673
475	Advanced Asymmetric Supercapacitors Based on Ni(OH) ₂ /Graphene and Porous Graphene Electrodes with High Energy Density. <i>Advanced Functional Materials</i> , 2012 , 22, 2632-2641	15.6	1668
474	An oxygen reduction electrocatalyst based on carbon nanotube-graphene complexes. <i>Nature Nanotechnology</i> , 2012 , 7, 394-400	28.7	1407
473	Fast and reversible surface redox reaction of graphene/MnO ₂ composites as supercapacitor electrodes. <i>Carbon</i> , 2010 , 48, 3825-3833	10.4	1169
472	A three-dimensional carbon nanotube/graphene sandwich and its application as electrode in supercapacitors. <i>Advanced Materials</i> , 2010 , 22, 3723-8	24	1092
471	Powering Lithium-Sulfur Battery Performance by Propelling Polysulfide Redox at Sulfiphilic Hosts. <i>Nano Letters</i> , 2016 , 16, 519-27	11.5	1055
470	A Review of Solid Electrolyte Interphases on Lithium Metal Anode. <i>Advanced Science</i> , 2016 , 3, 1500213	13.6	962
469	Preparation of a graphene nanosheet/polyaniline composite with high specific capacitance. <i>Carbon</i> , 2010 , 48, 487-493	10.4	911
468	Facile synthesis of graphene nanosheets via Fe reduction of exfoliated graphite oxide. <i>ACS Nano</i> , 2011 , 5, 191-8	16.7	742
467	Oxygen reduction electrocatalyst based on strongly coupled cobalt oxide nanocrystals and carbon nanotubes. <i>Journal of the American Chemical Society</i> , 2012 , 134, 15849-57	16.4	694
466	Permselective graphene oxide membrane for highly stable and anti-self-discharge lithium-sulfur batteries. <i>ACS Nano</i> , 2015 , 9, 3002-11	16.7	605
465	Unstacked double-layer templated graphene for high-rate lithium-sulphur batteries. <i>Nature Communications</i> , 2014 , 5, 3410	17.4	551
464	Ionic shield for polysulfides towards highly-stable lithium-sulfur batteries. <i>Energy and Environmental Science</i> , 2014 , 7, 347-353	35.4	547
463	The road for nanomaterials industry: a review of carbon nanotube production, post-treatment, and bulk applications for composites and energy storage. <i>Small</i> , 2013 , 9, 1237-65	11	543
462	Spatially Confined Hybridization of Nanometer-Sized NiFe Hydroxides into Nitrogen-Doped Graphene Frameworks Leading to Superior Oxygen Evolution Reactivity. <i>Advanced Materials</i> , 2015 , 27, 4516-4522	24	533
461	Hierarchical NiMn Layered Double Hydroxide/Carbon Nanotubes Architecture with Superb Energy Density for Flexible Supercapacitors. <i>Advanced Functional Materials</i> , 2014 , 24, 2938-2946	15.6	532

460	Nitrogen-doped graphene/carbon nanotube hybrids: in situ formation on bifunctional catalysts and their superior electrocatalytic activity for oxygen evolution/reduction reaction. <i>Small</i> , 2014 , 10, 2251-9	11	525
459	Topological Defects in Metal-Free Nanocarbon for Oxygen Electrocatalysis. <i>Advanced Materials</i> , 2016 , 28, 6845-51	24	522
458	Conductive Nanostructured Scaffolds Render Low Local Current Density to Inhibit Lithium Dendrite Growth. <i>Advanced Materials</i> , 2016 , 28, 2155-62	24	498
457	Preparation of graphene nanosheet/carbon nanotube/polyaniline composite as electrode material for supercapacitors. <i>Journal of Power Sources</i> , 2010 , 195, 3041-3045	8.9	498
456	Nitrogen-doped aligned carbon nanotube/graphene sandwiches: facile catalytic growth on bifunctional natural catalysts and their applications as scaffolds for high-rate lithium-sulfur batteries. <i>Advanced Materials</i> , 2014 , 26, 6100-5	24	492
455	Multi-functional separator/interlayer system for high-stable lithium-sulfur batteries: Progress and prospects. <i>Energy Storage Materials</i> , 2015 , 1, 127-145	19.4	491
454	Electrochemical properties of graphene nanosheet/carbon black composites as electrodes for supercapacitors. <i>Carbon</i> , 2010 , 48, 1731-1737	10.4	478
453	Hierarchical Nanocomposites Derived from Nanocarbons and Layered Double Hydroxides - Properties, Synthesis, and Applications. <i>Advanced Functional Materials</i> , 2012 , 22, 675-694	15.6	477
452	Graphene/single-walled carbon nanotube hybrids: one-step catalytic growth and applications for high-rate Li-S batteries. <i>ACS Nano</i> , 2012 , 6, 10759-69	16.7	462
451	Nanoarchitected Graphene/CNT@Porous Carbon with Extraordinary Electrical Conductivity and Interconnected Micro/Mesopores for Lithium-Sulfur Batteries. <i>Advanced Functional Materials</i> , 2014 , 24, 2772-2781	15.6	452
450	Design and Synthesis of Hierarchical Nanowire Composites for Electrochemical Energy Storage. <i>Advanced Functional Materials</i> , 2009 , 19, 3420-3426	15.6	405
449	Tuning element distribution, structure and properties by composition in high-entropy alloys. <i>Nature</i> , 2019 , 574, 223-227	50.4	404
448	Carbon nanotube- and graphene-based nanomaterials and applications in high-voltage supercapacitor: A review. <i>Carbon</i> , 2019 , 141, 467-480	10.4	386
447	Aligned carbon nanotube/sulfur composite cathodes with high sulfur content for lithium-sulfur batteries. <i>Nano Energy</i> , 2014 , 4, 65-72	17.1	328
446	Strongly Coupled Interfaces between a Heterogeneous Carbon Host and a Sulfur-Containing Guest for Highly Stable Lithium-Sulfur Batteries: Mechanistic Insight into Capacity Degradation. <i>Advanced Materials Interfaces</i> , 2014 , 1, 1400227	4.6	311
445	Gram-scale synthesis of nanomesh graphene with high surface area and its application in supercapacitor electrodes. <i>Chemical Communications</i> , 2011 , 47, 5976-8	5.8	308
444	An ultrafast nickel-iron battery from strongly coupled inorganic nanoparticle/nanocarbon hybrid materials. <i>Nature Communications</i> , 2012 , 3, 917	17.4	301
443	Toward Full Exposure of Active Sites—Nanocarbon Electrocatalyst with Surface Enriched Nitrogen for Superior Oxygen Reduction and Evolution Reactivity. <i>Advanced Functional Materials</i> , 2014 , 24, 5956-5961	15.6	300

442	CaO-Templated Growth of Hierarchical Porous Graphene for High-Power Lithium-Sulfur Battery Applications. <i>Advanced Functional Materials</i> , 2016 , 26, 577-585	15.6	294
441	Carbon nanotube mass production: principles and processes. <i>ChemSusChem</i> , 2011 , 4, 864-89	8.3	288
440	Electromagnetic and microwave absorbing properties of multi-walled carbon nanotubes/polymer composites. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2006 , 132, 85-89	3.1	272
439	Growth of half-meter long carbon nanotubes based on Schulz-Flory distribution. <i>ACS Nano</i> , 2013 , 7, 6156-61	6.7	255
438	Janus Separator of Polypropylene-Supported Cellular Graphene Framework for Sulfur Cathodes with High Utilization in Lithium-Sulfur Batteries. <i>Advanced Science</i> , 2016 , 3, 1500268	13.6	251
437	Nanographene-constructed carbon nanofibers grown on graphene sheets by chemical vapor deposition: high-performance anode materials for lithium ion batteries. <i>ACS Nano</i> , 2011 , 5, 2787-94	16.7	249
436	Superlubricity in centimetres-long double-walled carbon nanotubes under ambient conditions. <i>Nature Nanotechnology</i> , 2013 , 8, 912-6	28.7	243
435	The large-scale production of carbon nanotubes in a nano-agglomerate fluidized-bed reactor. <i>Chemical Physics Letters</i> , 2002 , 364, 568-572	2.5	243
434	A Three-Dimensionally Interconnected Carbon Nanotube-Conducting Polymer Hydrogel Network for High-Performance Flexible Battery Electrodes. <i>Advanced Energy Materials</i> , 2014 , 4, 1400207	21.8	242
433	Fabrication and electrochemical performances of hierarchical porous Ni(OH) ₂ nanoflakes anchored on graphene sheets. <i>Journal of Materials Chemistry</i> , 2012 , 22, 11494		240
432	Carbon Nanotubes and Related Nanomaterials: Critical Advances and Challenges for Synthesis toward Mainstream Commercial Applications. <i>ACS Nano</i> , 2018 , 12, 11756-11784	16.7	239
431	Template-Directed Synthesis of Pillared-Porous Carbon Nanosheet Architectures: High-Performance Electrode Materials for Supercapacitors. <i>Advanced Energy Materials</i> , 2012 , 2, 419-424	21.8	229
430	99.9% purity multi-walled carbon nanotubes by vacuum high-temperature annealing. <i>Carbon</i> , 2003 , 41, 2585-2590	10.4	229
429	Li ₂ S ₅ -based ternary-salt electrolyte for robust lithium metal anode. <i>Energy Storage Materials</i> , 2016 , 3, 77-84	19.4	215
428	Increasing para-Xylene Selectivity in Making Aromatics from Methanol with a Surface-Modified Zn/P/ZSM-5 Catalyst. <i>ACS Catalysis</i> , 2015 , 5, 2982-2988	13.1	206
427	Entrapment of sulfur in hierarchical porous graphene for lithium-sulfur batteries with high rate performance from 0 to 60°C. <i>Nano Energy</i> , 2013 , 2, 314-321	17.1	204
426	A treatment method to give separated multi-walled carbon nanotubes with high purity, high crystallization and a large aspect ratio. <i>Carbon</i> , 2003 , 41, 2939-2948	10.4	198
425	3D Carbonaceous Current Collectors: The Origin of Enhanced Cycling Stability for High-Sulfur-Loading Lithium-Sulfur Batteries. <i>Advanced Functional Materials</i> , 2016 , 26, 6351-6358	15.6	191

4 ²⁴	Air filtration in the free molecular flow regime: a review of high-efficiency particulate air filters based on carbon nanotubes. <i>Small</i> , 2014 , 10, 4543-61	11	189
4 ²³	Carbon nanotube bundles with tensile strength over 80 GPa. <i>Nature Nanotechnology</i> , 2018 , 13, 589-595	28.7	185
4 ²²	Highly electroconductive mesoporous graphene nanofibers and their capacitance performance at 4 V. <i>Journal of the American Chemical Society</i> , 2014 , 136, 2256-9	16.4	176
4 ²¹	Red Phosphorus Nanodots on Reduced Graphene Oxide as a Flexible and Ultra-Fast Anode for Sodium-Ion Batteries. <i>ACS Nano</i> , 2017 , 11, 5530-5537	16.7	169
4 ²⁰	Healing High-Loading Sulfur Electrodes with Unprecedented Long Cycling Life: Spatial Heterogeneity Control. <i>Journal of the American Chemical Society</i> , 2017 , 139, 8458-8466	16.4	163
4 ¹⁹	Embedded high density metal nanoparticles with extraordinary thermal stability derived from guest-host mediated layered double hydroxides. <i>Journal of the American Chemical Society</i> , 2010 , 132, 14739-41	16.4	161
4 ¹⁸	Building robust architectures of carbon and metal oxide nanocrystals toward high-performance anodes for lithium-ion batteries. <i>ACS Nano</i> , 2012 , 6, 9911-9	16.7	159
4 ¹⁷	Binder-free activated carbon/carbon nanotube paper electrodes for use in supercapacitors. <i>Nano Research</i> , 2011 , 4, 870-881	10	154
4 ¹⁶	Tuning Chemistry and Topography of Nanoengineered Surfaces to Manipulate Immune Response for Bone Regeneration Applications. <i>ACS Nano</i> , 2017 , 11, 4494-4506	16.7	153
4 ¹⁵	Superstrong ultralong carbon nanotubes for mechanical energy storage. <i>Advanced Materials</i> , 2011 , 23, 3387-91	24	148
4 ¹⁴	High-performance flexible lithium-ion electrodes based on robust network architecture. <i>Energy and Environmental Science</i> , 2012 , 5, 6845	35.4	137
4 ¹³	Monolithic-structured ternary hydroxides as freestanding bifunctional electrocatalysts for overall water splitting. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 7245-7250	13	135
4 ¹²	Microstructure of carbon nanotubes/PET conductive composites fibers and their properties. <i>Composites Science and Technology</i> , 2006 , 66, 1022-1029	8.6	132
4 ¹¹	Aligned sulfur-coated carbon nanotubes with a polyethylene glycol barrier at one end for use as a high efficiency sulfur cathode. <i>Carbon</i> , 2013 , 58, 99-106	10.4	131
4 ¹⁰	Dendrite-free nanostructured anode: entrapment of lithium in a 3D fibrous matrix for ultra-stable lithium-sulfur batteries. <i>Small</i> , 2014 , 10, 4257-63	11	130
4 ⁰⁹	3D Heteroatom-Doped Carbon Nanomaterials as Multifunctional Metal-Free Catalysts for Integrated Energy Devices. <i>Advanced Materials</i> , 2019 , 31, e1805598	24	129
4 ⁰⁸	The mass production of carbon nanotubes using a nano-agglomerate fluidized bed reactor: A multiscale space-time analysis. <i>Powder Technology</i> , 2008 , 183, 10-20	5.2	125
4 ⁰⁷	Direct growth of flexible LiMn ₂ O ₄ /CNT lithium-ion cathodes. <i>Chemical Communications</i> , 2011 , 47, 9669-71	3.8	120

406	Porous graphene networks as high performance anode materials for lithium ion batteries. <i>Carbon</i> , 2013 , 60, 558-561	10.4	117
405	Dual-sized NiFe layered double hydroxides in situ grown on oxygen-decorated self-dispersal nanocarbon as enhanced water oxidation catalysts. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 24540-24546	12	114
404	Polysulfide shuttle control: Towards a lithium-sulfur battery with superior capacity performance up to 1000 cycles by matching the sulfur/electrolyte loading. <i>Journal of Power Sources</i> , 2014 , 253, 263-268	8.9	113
403	Gas and solids mixing in a turbulent fluidized bed. <i>AIChE Journal</i> , 2002 , 48, 1896-1909	3.6	110
402	High-performance energy-storage architectures from carbon nanotubes and nanocrystal building blocks. <i>Advanced Materials</i> , 2012 , 24, 2030-6	24	109
401	Hierarchical Composites of Single/Double-Walled Carbon Nanotubes Interlinked Flakes from Direct Carbon Deposition on Layered Double Hydroxides. <i>Advanced Functional Materials</i> , 2010 , 20, 677-685	15.6	109
400	The catalytic pathways of hydrohalogenation over metal-free nitrogen-doped carbon nanotubes. <i>ChemSusChem</i> , 2014 , 7, 723-8	8.3	106
399	Energy-Absorbing Hybrid Composites Based on Alternate Carbon-Nanotube and Inorganic Layers. <i>Advanced Materials</i> , 2009 , 21, 2876-2880	24	106
398	Crystal-plane effect of nanoscale CeO ₂ on the catalytic performance of Ni/CeO ₂ catalysts for methane dry reforming. <i>Catalysis Science and Technology</i> , 2016 , 6, 3594-3605	5.5	103
397	Characterization of single-wall carbon nanotubes by N ₂ adsorption. <i>Carbon</i> , 2004 , 42, 2375-2383	10.4	102
396	A new structure for multi-walled carbon nanotubes reinforced alumina nanocomposite with high strength and toughness. <i>Materials Letters</i> , 2008 , 62, 641-644	3.3	101
395	Downer reactor: From fundamental study to industrial application. <i>Powder Technology</i> , 2008 , 183, 364-384	34	101
394	Towards high purity graphene/single-walled carbon nanotube hybrids with improved electrochemical capacitive performance. <i>Carbon</i> , 2013 , 54, 403-411	10.4	100
393	Horizontally aligned carbon nanotube arrays: growth mechanism, controlled synthesis, characterization, properties and applications. <i>Chemical Society Reviews</i> , 2017 , 46, 3661-3715	58.5	97
392	Nanoporous microstructures mediate osteogenesis by modulating the osteo-immune response of macrophages. <i>Nanoscale</i> , 2017 , 9, 706-718	7.7	97
391	Hierarchical vine-tree-like carbon nanotube architectures: In-situ CVD self-assembly and their use as robust scaffolds for lithium-sulfur batteries. <i>Advanced Materials</i> , 2014 , 26, 7051-8	24	97
390	Growth Deceleration of Vertically Aligned Carbon Nanotube Arrays: Catalyst Deactivation or Feedstock Diffusion Controlled?. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 4892-4896	3.8	96
389	Fabrication of c-axis oriented ZSM-5 hollow fibers based on an in situ solid-solid transformation mechanism. <i>Journal of the American Chemical Society</i> , 2013 , 135, 15322-5	16.4	95

388	Vertically aligned carbon nanotube arrays grown on a lamellar catalyst by fluidized bed catalytic chemical vapor deposition. <i>Carbon</i> , 2009 , 47, 2600-2610	10.4	94
387	Numerical simulation of the gas-particle turbulent flow in riser reactor based on k- ϵ two-fluid model. <i>Chemical Engineering Science</i> , 2001 , 56, 6813-6822	4.4	93
386	A low content Au-based catalyst for hydrochlorination of C ₂ H ₂ and its industrial scale-up for future PVC processes. <i>Green Chemistry</i> , 2015 , 17, 356-364	10	92
385	Building flexible Li ₄ Ti ₅ O ₁₂ /CNT lithium-ion battery anodes with superior rate performance and ultralong cycling stability. <i>Nano Energy</i> , 2014 , 10, 344-352	17.1	92
384	Carbon-nanotube-array double helices. <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 3642-5	16.4	90
383	Synergistic Gold-Bismuth Catalysis for Non-Mercury Hydrochlorination of Acetylene to Vinyl Chloride Monomer. <i>ACS Catalysis</i> , 2014 , 4, 3112-3116	13.1	88
382	Radial growth of vertically aligned carbon nanotube arrays from ethylene on ceramic spheres. <i>Carbon</i> , 2008 , 46, 1152-1158	10.4	87
381	Highly deformation-tolerant carbon nanotube sponges as supercapacitor electrodes. <i>Nanoscale</i> , 2013 , 5, 8472-9	7.7	86
380	Profiles of particle velocity and solids fraction in a high-density riser. <i>Powder Technology</i> , 1998 , 100, 183-189	5.18	84
379	Synchronous Growth of Vertically Aligned Carbon Nanotubes with Pristine Stress in the Heterogeneous Catalysis Process. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 14638-14643	3.8	82
378	Enhanced production of carbon nanotubes: combination of catalyst reduction and methane decomposition. <i>Applied Catalysis A: General</i> , 2004 , 258, 121-124	5.1	82
377	Modeling the hydrodynamics of downer reactors based on kinetic theory. <i>Chemical Engineering Science</i> , 1999 , 54, 2019-2027	4.4	82
376	Direct synthesis of hierarchical zeolite from a natural layered material. <i>Chemical Communications</i> , 2009 , 3282-4	5.8	81
375	Long carbon nanotubes intercrossed Cu/Zn/Al/Zr catalyst for CO/CO ₂ hydrogenation to methanol/dimethyl ether. <i>Catalysis Today</i> , 2010 , 150, 55-60	5.3	80
374	Three-dimensional aluminum foam/carbon nanotube scaffolds as long- and short-range electron pathways with improved sulfur loading for high energy density lithium-sulfur batteries. <i>Journal of Power Sources</i> , 2014 , 261, 264-270	8.9	79
373	Synthesis of carbon nanotubes from liquefied petroleum gas containing sulfur. <i>Carbon</i> , 2002 , 40, 2968-2970	7.0	79
372	Quantitative Raman characterization of the mixed samples of the single and multi-wall carbon nanotubes. <i>Carbon</i> , 2003 , 41, 1851-1854	10.4	79
371	Flexible all-carbon interlinked nanoarchitectures as cathode scaffolds for high-rate lithium-sulfur batteries. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 10869-10875	13	78

370	100 mm long, semiconducting triple-walled carbon nanotubes. <i>Advanced Materials</i> , 2010 , 22, 1867-71	24	78
369	The feasibility of producing MWCNT paper and strong MWCNT film from VACNT array. <i>Applied Physics A: Materials Science and Processing</i> , 2008 , 92, 531-539	2.6	78
368	Growing 20 cm Long DWNTs/TWNTs at a Rapid Growth Rate of 8000 th/s. <i>Chemistry of Materials</i> , 2010 , 22, 1294-1296	9.6	77
367	Mass production of aligned carbon nanotube arrays by fluidized bed catalytic chemical vapor deposition. <i>Carbon</i> , 2010 , 48, 1196-1209	10.4	77
366	Hierarchical carbon nanotube membrane with high packing density and tunable porous structure for high voltage supercapacitors. <i>Carbon</i> , 2012 , 50, 5167-5175	10.4	76
365	Gaseous catalytic hydrogenation of nitrobenzene to aniline in a two-stage fluidized bed reactor. <i>Applied Catalysis A: General</i> , 2005 , 286, 30-35	5.1	76
364	Continuous vinyl chloride monomer production by acetylene hydrochlorination on Hg-free bismuth catalyst: From lab-scale catalyst characterization, catalytic evaluation to a pilot-scale trial by circulating regeneration in coupled fluidized beds. <i>Fuel Processing Technology</i> , 2013 , 108, 12-18	7.2	73
363	Kinetics of the reactions of the light alkenes over SAPO-34. <i>Applied Catalysis A: General</i> , 2008 , 348, 135-141	7.3	73
362	Elastic deformation of multiwalled carbon nanotubes in electrospun MWCNTs/PBO and MWCNTs/PVA nanofibers. <i>Polymer</i> , 2005 , 46, 12689-12695	3.9	73
361	High capacity gas storage in corrugated porous graphene with a specific surface area-lossless tightly stacking manner. <i>Chemical Communications</i> , 2012 , 48, 6815-7	5.8	72
360	Conversion of methanol to aromatics in fluidized bed reactor. <i>Catalysis Today</i> , 2014 , 233, 8-13	5.3	71
359	In situ fabrication of depth-type hierarchical CNT/quartz fiber filters for high efficiency filtration of sub-micron aerosols and high water repellency. <i>Nanoscale</i> , 2013 , 5, 3367-72	7.7	70
358	Chemical vapor deposition derived flexible graphene paper and its application as high performance anodes for lithium rechargeable batteries. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 408-414	13	70
357	Toughening and reinforcing alumina matrix composite with single-wall carbon nanotubes. <i>Applied Physics Letters</i> , 2006 , 89, 121910	3.4	70
356	Atmospheric pressure synthesis of nanosized ZSM-5 with enhanced catalytic performance for methanol to aromatics reaction. <i>Catalysis Science and Technology</i> , 2014 , 4, 3840-3844	5.5	69
355	Enhanced hydrogen production in a UASB reactor by retaining microbial consortium onto carbon nanotubes (CNTs). <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 10619-10626	6.7	69
354	Composite Cathodes Containing SWCNT@S Coaxial Nanocables: Facile Synthesis, Surface Modification, and Enhanced Performance for Li-Ion Storage. <i>Particle and Particle Systems Characterization</i> , 2013 , 30, 158-165	3.1	68
353	CO ₂ -Assisted SWNT Growth on Porous Catalysts. <i>Chemistry of Materials</i> , 2007 , 19, 1226-1230	9.6	68

352	Dispersion of lateral and axial solids in a cocurrent downflow circulating fluidized bed. <i>Powder Technology</i> , 1994 , 81, 25-30	5.2	68
351	Bayberry-like ZnO/MFI zeolite as high performance methanol-to-aromatics catalyst. <i>Chemical Communications</i> , 2016 , 52, 2011-4	5.8	67
350	Layered double hydroxides as catalysts for the efficient growth of high quality single-walled carbon nanotubes in a fluidized bed reactor. <i>Carbon</i> , 2010 , 48, 3260-3270	10.4	67
349	New procedure towards size-homogeneous and well-dispersed nickel oxide nanoparticles of 30 nm. <i>Materials Letters</i> , 2004 , 58, 3226-3228	3.3	67
348	Hierarchical SAPO-34/18 zeolite with low acid site density for converting methanol to olefins. <i>Catalysis Today</i> , 2014 , 233, 2-7	5.3	65
347	Effect of nano-structural properties of biomimetic hydroxyapatite on osteoimmunomodulation. <i>Biomaterials</i> , 2018 , 181, 318-332	15.6	63
346	Pore-structure-mediated hierarchical SAPO-34: Facile synthesis, tunable nanostructure, and catalysis applications for the conversion of dimethyl ether into olefins. <i>Particuology</i> , 2013 , 11, 468-474	2.8	63
345	Differences in the methanol-to-olefins reaction catalyzed by SAPO-34 with dimethyl ether as reactant. <i>Journal of Catalysis</i> , 2014 , 311, 281-287	7.3	62
344	Transient density signal analysis and two-phase micro-structure flow in gas/solids fluidization. <i>Chemical Engineering Science</i> , 2001 , 56, 2179-2189	4.4	62
343	Improvement of oil adsorption performance by a sponge-like natural vermiculite-carbon nanotube hybrid. <i>Applied Clay Science</i> , 2011 , 53, 1-7	5.2	61
342	The evaluation of the gross defects of carbon nanotubes in a continuous CVD process. <i>Carbon</i> , 2003 , 41, 2613-2617	10.4	61
341	3D Hierarchical Porous Graphene-Based Energy Materials: Synthesis, Functionalization, and Application in Energy Storage and Conversion. <i>Electrochemical Energy Reviews</i> , 2019 , 2, 332-371	29.3	59
340	High density Co ₃ O ₄ nanoparticles confined in a porous graphene nanomesh network driven by an electrochemical process: ultra-high capacity and rate performance for lithium ion batteries. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 14023	13	58
339	Gas-Phase Catalytic Hydrochlorination of Acetylene in a Two-Stage Fluidized-Bed Reactor. <i>Industrial & Engineering Chemistry Research</i> , 2009 , 48, 128-133	3.9	58
338	The Immunomodulatory Role of BMP-2 on Macrophages to Accelerate Osteogenesis. <i>Tissue Engineering - Part A</i> , 2018 , 24, 584-594	3.9	57
337	Centrifugation-free and high yield synthesis of nanosized H-ZSM-5 and its structure-guided aromatization of methanol to 1,2,4-trimethylbenzene. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 19797-19808	13	57
336	Dramatic enhancements in toughness of polyimide nanocomposite via long-CNT-induced long-range creep. <i>Journal of Materials Chemistry</i> , 2012 , 22, 7050		57
335	Controlled Synthesis of Ultralong Carbon Nanotubes with Perfect Structures and Extraordinary Properties. <i>Accounts of Chemical Research</i> , 2017 , 50, 179-189	24.3	56

- 334 High-power lithium ion batteries based on flexible and light-weight cathode of LiNi_{0.5}Mn_{1.5}O₄/carbon nanotube film. *Nano Energy*, **2015**, 12, 43-51 17.1 56
- 333 Guest-host modulation of multi-metallic (oxy)hydroxides for superb water oxidation. *Journal of Materials Chemistry A*, **2016**, 4, 3210-3216 13 55
- 332 Reactivity enhancement of N-CNTs in green catalysis of C₂H₂ hydrochlorination by a Cu catalyst. *RSC Advances*, **2014**, 4, 7766-7769 3.7 55
- 331 One-step synthesis of a graphene-carbon nanotube hybrid decorated by magnetic nanoparticles. *Carbon*, **2012**, 50, 2764-2771 10.4 55
- 330 Resilient aligned carbon nanotube/graphene sandwiches for robust mechanical energy storage. *Nano Energy*, **2014**, 7, 161-169 17.1 54
- 329 Optical visualization of individual ultralong carbon nanotubes by chemical vapour deposition of titanium dioxide nanoparticles. *Nature Communications*, **2013**, 4, 1727 17.4 54
- 328 Lithium-Sulfur Batteries: Dendrite-Free Nanostructured Anode: Entrapment of Lithium in a 3D Fibrous Matrix for Ultra-Stable Lithium/Sulfur Batteries (Small 21/2014). *Small*, **2014**, 10, 4222-4222 11 53
- 327 Improvement of Fe/MgO catalysts by calcination for the growth of single- and double-walled carbon nanotubes. *Journal of Physical Chemistry B*, **2006**, 110, 1201-5 3.4 53
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