

Di Wei

List of Publications by Year in descending order

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62
papers

5,942
citations

109321

35
h-index

123424

61
g-index

64
all docs

64
docs citations

64
times ranked

10166
citing authors

#	ARTICLE	IF	CITATIONS
1	Ultrafast Graphene Oxide Humidity Sensors. ACS Nano, 2013, 7, 11166-11173.	14.6	762
2	Hierarchical Graphene Foam for Efficient Omnidirectional Solar-Driven Thermal Energy Conversion. Advanced Materials, 2017, 29, 1702590.	21.0	675
3	Applications of ionic liquids in electrochemical sensors. Analytica Chimica Acta, 2008, 607, 126-135.	5.4	650
4	A Nanostructured Electrochromic Supercapacitor. Nano Letters, 2012, 12, 1857-1862.	9.1	357
5	MOF derived Ni-Co-S nanosheets on electrochemically activated carbon cloth via an etching/ion exchange method for wearable hybrid supercapacitors. Chemical Engineering Journal, 2019, 371, 461-469.	12.7	239
6	Carbon Nanomaterial-Based Flexible Batteries for Wearable Electronics. Advanced Materials, 2019, 31, e1800716.	21.0	228
7	Wearable energy sources based on 2D materials. Chemical Society Reviews, 2018, 47, 3152-3188.	38.1	226
8	Dye Sensitized Solar Cells. International Journal of Molecular Sciences, 2010, 11, 1103-1113.	4.1	207
9	Electrochemical biosensors at the nanoscale. Lab on A Chip, 2009, 9, 2123.	6.0	134
10	Critical Insight into the Relentless Progression Toward Graphene and Graphene-Containing Materials for Lithium-Ion Battery Anodes. Advanced Materials, 2017, 29, 1603421.	21.0	132
11	Graphene from electrochemical exfoliation and its direct applications in enhanced energy storage devices. Chemical Communications, 2012, 48, 1239-1241.	4.1	131
12	Wide linear range and highly sensitive flexible pressure sensor based on multistage sensing process for health monitoring and human-machine interfaces. Chemical Engineering Journal, 2021, 412, 128649.	12.7	125
13	Graphene for energy harvesting/storage devices and printed electronics. Particuology, 2012, 10, 1-8.	3.6	113
14	Photoelectrochemical Properties of Graphene and Its Derivatives. Nanomaterials, 2013, 3, 325-356.	4.1	104
15	Brodie vs Hummers graphite oxides for preparation of multi-layered materials. Carbon, 2017, 115, 430-440.	10.3	104
16	Transfer-Medium-Free Nanofiber-Reinforced Graphene Film and Applications in Wearable Transparent Pressure Sensors. ACS Nano, 2019, 13, 5541-5548.	14.6	96
17	Graphene for energy solutions and its industrialization. Nanoscale, 2013, 5, 10108.	5.6	86
18	Solar thermal-driven capacitance enhancement of supercapacitors. Energy and Environmental Science, 2018, 11, 2016-2024.	30.8	85

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19	Transparent, flexible and solid-state supercapacitors based on room temperature ionic liquid gel. <i>Electrochemistry Communications</i> , 2009, 11, 2285-2287.	4.7	80
20	Photoelectrochemical cell using dye sensitized zinc oxide nanowires grown on carbon fibers. <i>Applied Physics Letters</i> , 2008, 93, .	3.3	76
21	Multilayer NiMn layered double hydroxide nanosheets covered porous Co ₃ O ₄ nanowire arrays with hierarchical structure for high-performance supercapacitors. <i>Journal of Power Sources</i> , 2019, 440, 227123.	7.8	76
22	Electrochemical functionalization of single walled carbon nanotubes with polyaniline in ionic liquids. <i>Electrochemistry Communications</i> , 2007, 9, 206-210.	4.7	73
23	Application of novel room temperature ionic liquids in flexible supercapacitors. <i>Electrochemistry Communications</i> , 2009, 11, 1996-1999.	4.7	72
24	A solid-state dye-sensitized solar cell based on a novel ionic liquid gel and ZnO nanoparticles on a flexible polymer substrate. <i>Nanotechnology</i> , 2008, 19, 424006.	2.6	68
25	Ultrahigh Energy Density Lithium Ion Cable Battery Based on the Carbon Nanotube Woven Macrofilms. <i>Small</i> , 2018, 14, e1800414.	10.0	65
26	Ultrathin rechargeable all-solid-state batteries based on monolayer graphene. <i>Journal of Materials Chemistry A</i> , 2013, 1, 3177.	10.3	60
27	Enhanced supercapacitors from hierarchical carbon nanotube and nanohorn architectures. <i>Journal of Materials Chemistry</i> , 2011, 21, 17810.	6.7	57
28	Polyaniline nanotubules obtained in room-temperature ionic liquids. <i>Electrochemistry Communications</i> , 2006, 8, 1563-1566.	4.7	56
29	Flexible solid state lithium batteries based on graphene inks. <i>Journal of Materials Chemistry</i> , 2011, 21, 9762.	6.7	52
30	Bimetal-organic framework derived Cu(NiCo) ₂ S ₄ /Ni ₃ S ₄ electrode material with hierarchical hollow heterostructure for high performance energy storage. <i>Journal of Colloid and Interface Science</i> , 2020, 565, 295-304.	9.4	49
31	Highly Safe and Ultra Stable All Flexible Gel Polymer Lithium Ion Batteries Aiming for Scalable Applications. <i>Advanced Energy Materials</i> , 2020, 10, 1904281.	19.5	48
32	A Bioinspired, Durable, and Nondisposable Transparent Graphene Skin Electrode for Electrophysiological Signal Detection. , 2020, 2, 999-1007.		44
33	Electrochemical fabrication of a nonvolatile memory device based on polyaniline and gold particles. <i>Journal of Materials Chemistry</i> , 2008, 18, 1853.	6.7	42
34	Low Temperature and Rapid Growth of Large Single Crystalline Graphene with Ethane. <i>Small</i> , 2018, 14, 1702916.	10.0	39
35	Electrochemically exfoliated graphene oxide/iron oxide composite foams for lithium storage, produced by simultaneous graphene reduction and Fe(OH) ₃ condensation. <i>Carbon</i> , 2015, 84, 254-262.	10.3	38
36	Properties of graphene inks stabilized by different functional groups. <i>Nanotechnology</i> , 2011, 22, 245702.	2.6	37

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37	Two-dimensional organic-inorganic hybrid Ruddlesden-Popper perovskite materials: preparation, enhanced stability, and applications in photodetection. <i>Sustainable Energy and Fuels</i> , 2020, 4, 2087-2113.	4.9	36
38	ZnO Nanowire and WS_2 Nanotube Electronics. <i>IEEE Transactions on Electron Devices</i> , 2008, 55, 2988-3000.	3.0	35
39	A moisture-enabled fully printable power source inspired by electric eels. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	30
40	Electrosynthesis and characterisation of poly(N-methylaniline) in organic solvents. <i>Journal of Electroanalytical Chemistry</i> , 2005, 575, 19-26.	3.8	28
41	Graphene nanoarchitecture in batteries. <i>Nanoscale</i> , 2014, 6, 9536-9540.	5.6	27
42	Electropolymerization mechanism of N-methylaniline. <i>Synthetic Metals</i> , 2006, 156, 541-548.	3.9	25
43	Fibrous gel polymer electrolyte for an ultrastable and highly safe flexible lithium-ion battery in a wide temperature range. , 2021, 3, 916-928.		22
44	ESR-Dimer of an Aniline Dimer: An ESR-UV-Vis Spectroelectrochemical Study. <i>Journal of Physical Chemistry B</i> , 2007, 111, 12395-12398.	2.6	21
45	Study on charge transfer reactions at multilayers of polyoxometalates clusters and poly(allylamine) Tj ETQq1 1 0.784314 rgBT /Overlo	5.2	20
46	In situ conductance and in situ ATR-FTIR study of poly(N-methylaniline) in aqueous solution. <i>Journal of Electroanalytical Chemistry</i> , 2007, 602, 203-209.	3.8	20
47	A three-dimensional and porous bi-nanospheres electrocatalytic system constructed by in situ generation of Ru nanoclusters inside and outside polydopamine nanoparticles for highly efficient hydrogen evolution reaction. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 6592-6603.	7.1	20
48	All-Solid-State Textile Batteries Made from Nano-Emulsion Conducting Polymer Inks for Wearable Electronics. <i>Nanomaterials</i> , 2012, 2, 268-274.	4.1	19
49	Writable electrochemical energy source based on graphene oxide. <i>Scientific Reports</i> , 2015, 5, 15173.	3.3	17
50	Electrochemical photovoltaic cells—review of recent developments. <i>Journal of Chemical Technology and Biotechnology</i> , 2010, 85, 1547-1552.	3.2	16
51	Template-free electrochemical nanofabrication of polyaniline nanobrush and hybrid polyaniline with carbon nanohorns for supercapacitors. <i>Nanotechnology</i> , 2010, 21, 435702.	2.6	14
52	Hierarchically structured nanocarbon electrodes for flexible solid lithium batteries. <i>Nano Energy</i> , 2013, 2, 1054-1062.	16.0	14
53	Post-imprinting modification based on multilevel mesoporous silica for highly sensitive molecularly imprinted fluorescent sensors. <i>Analyst, The</i> , 2019, 144, 6283-6290.	3.5	14
54	Transformation of Unipolar Single-Walled Carbon Nanotube Field Effect Transistors to Ambipolar Induced by Polystyrene Nanosphere Assembly. <i>ACS Nano</i> , 2008, 2, 2526-2530.	14.6	13

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55	Charge Carrier Transport and Optical Properties of Poly[N-methyl(aniline)]. Journal of Physical Chemistry C, 2007, 111, 16571-16576.	3.1	12
56	Surface modified high rectification organic diode based on sulfonated poly(aniline). Journal of Materials Chemistry, 2006, 16, 3014-3020.	6.7	9
57	Ultra-flexible and foldable gel polymer lithium-ion batteries enabling scalable production. Materials Today Energy, 2022, 23, 100889.	4.7	9
58	Micro-nano hybrid-structured conductive film with ultrawide range pressure-sensitivity and bioelectrical acquirability for ubiquitous wearable applications. Applied Materials Today, 2020, 20, 100651.	4.3	8
59	Screen-printable and flexible in-plane micro-supercapacitors with fractal electrode design. Flexible and Printed Electronics, 2021, 6, 025008.	2.7	7
60	Tunable wideband slot antennas based on printable graphene inks. Nanoscale, 2020, 12, 10949-10955.	5.6	6
61	Visualization of energy: light dose indicator based on electrochromic gyroid nano-materials. Nanotechnology, 2015, 26, 225501.	2.6	4
62	Utilization of Synergistic Effect of Dimension-Differentiated Hierarchical Nanomaterials for Transparent and Flexible Wireless Communicational Elements. Advanced Materials Technologies, 2020, 5, 1901057.	5.8	4