Dong Wook Chang

List of Publications by Year
in descending order

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80	7,322	236612	74018
papers	citations	25 h-index	75 g-index

83	83	83	11705
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Carbon Nanomaterials for Advanced Energy Conversion and Storage. Small, 2012, 8, 1130-1166.	5.2	1,304
2	BCN Graphene as Efficient Metalâ€Free Electrocatalyst for the Oxygen Reduction Reaction. Angewandte Chemie - International Edition, 2012, 51, 4209-4212.	7.2	1,119
3	Polyaniline-Grafted Reduced Graphene Oxide for Efficient Electrochemical Supercapacitors. ACS Nano, 2012, 6, 1715-1723.	7.3	807
4	Polyelectrolyte-Functionalized Graphene as Metal-Free Electrocatalysts for Oxygen Reduction. ACS Nano, 2011, 5, 6202-6209.	7.3	672
5	Graphene for energy conversion and storage in fuel cells and supercapacitors. Nano Energy, 2012, 1, 534-551.	8.2	628
6	Edge-carboxylated graphene nanosheets via ball milling. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 5588-5593.	3.3	595
7	DNA Damage Induced by Multiwalled Carbon Nanotubes in Mouse Embryonic Stem Cells. Nano Letters, 2007, 7, 3592-3597.	4.5	351
8	Formation of Large-Area Nitrogen-Doped Graphene Film Prepared from Simple Solution Casting of Edge-Selectively Functionalized Graphite and Its Electrocatalytic Activity. Chemistry of Materials, 2011, 23, 3987-3992.	3.2	171
9	Novel Quinoxaline-Based Organic Sensitizers for Dye-Sensitized Solar Cells. Organic Letters, 2011, 13, 3880-3883.	2.4	166
10	Nitrogen-Doped Graphene Nanoplatelets from Simple Solution Edge-Functionalization for n-Type Field-Effect Transistors. Journal of the American Chemical Society, 2013, 135, 8981-8988.	6.6	113
11	Graphene in photovoltaic applications: organic photovoltaic cells (OPVs) and dye-sensitized solar cells (DSSCs). Journal of Materials Chemistry A, 2014, 2, 12136.	5.2	107
12	Functionalized graphene nanoplatelets from ball milling for energy applications. Current Opinion in Chemical Engineering, 2016, 11, 52-58.	3.8	89
13	Nitrogenâ€Doped Graphene for Photocatalytic Hydrogen Generation. Chemistry - an Asian Journal, 2016, 11, 1125-1137.	1.7	63
14	Simple solution-based synthesis of pyridinic-rich nitrogen-doped graphene nanoplatelets for supercapacitors. Applied Energy, 2017, 195, 1071-1078.	5.1	60
15	Water-Dispersible, Sulfonated Hyperbranched Poly(ether-ketone) Grafted Multiwalled Carbon Nanotubes as Oxygen Reduction Catalysts. ACS Nano, 2012, 6, 6345-6355.	7.3	57
16	Multilayer white polymer light-emitting diodes with deoxyribonucleic acid-cetyltrimetylammonium complex as a hole-transporting/electron-blocking layer. Applied Physics Letters, 2008, 92, 251108.	1.5	49
17	Luminescent amphiphilic dendrimers with oligo(p-phenylene vinylene) core branches and oligo(ethylene oxide) terminal chains: syntheses and stimuli-responsive properties. Journal of Materials Chemistry, 2007, 17, 364-371.	6.7	44
18	Solvent-free mechanochemical reduction of graphene oxide. Carbon, 2014, 77, 501-507.	5.4	43

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19	Wet-chemical nitrogen-doping of graphene nanoplatelets as electrocatalysts for the oxygen reduction reaction. Journal of Materials Chemistry A, 2015, 3, 7659-7665.	5.2	40
20	Synthesis of quinoxaline-based polymers with multiple electron-withdrawing groups for polymer solar cells. Journal of Industrial and Engineering Chemistry, 2019, 73, 192-197.	2.9	35
21	Organic Photovoltaicsâ€™ New Renaissance: Advances Toward Rollâ€toâ€Roll Manufacturing of Nonâ€Fullerene Acceptor Organic Photovoltaics. Advanced Materials Technologies, 2022, 7, .	3.0	32
22	Multifunctional quinoxaline containing small molecules with multiple electron-donating moieties: Solvatochromic and optoelectronic properties. Synthetic Metals, 2012, 162, 1169-1176.	2.1	31
23	Edgeâ€Selectively Functionalized Graphene Nanoplatelets. Chemical Record, 2013, 13, 224-238.	2.9	31
24	Charge transport in graphene oxide. Nano Today, 2017, 17, 38-53.	6.2	31
25	Step-by-step improvement in photovoltaic properties of fluorinated quinoxaline-based low-band-gap polymers. Organic Electronics, 2017, 47, 14-23.	1.4	28
26	Wedging graphite into graphene and graphene-like platelets by dendritic macromolecules. Journal of Materials Chemistry, 2011, 21, 7820.	6.7	27
27	A facile approach to tailoring electrocatalytic activities of imine-rich nitrogen-doped graphene for oxygen reduction reaction. Carbon, 2017, 122, 515-523.	5.4	25
28	Eco-friendly synthesis of graphene nanoplatelets. Journal of Materials Chemistry A, 2016, 4, 15281-15293.	5.2	24
29	High performance cyano-substituted quinoxaline-based polymers for both fullerene and nonfullerene polymer solar cells. Journal of Materials Chemistry A, 2020, 8, 19513-19521.	5.2	23
30	Effects of pyridine and pyrrole moieties on supercapacitive properties of imine-rich nitrogen-doped graphene. Carbon, 2019, 152, 915-923.	5.4	22
31	Preparation and Electrocatalytic Activity of Gold Nanoparticles Immobilized on the Surface of 4-Mercaptobenzoyl-Functionalized Multiwalled Carbon Nanotubes. Journal of Physical Chemistry C, 2011, 115, 1746-1751.	1.5	20
32	Solution processable small molecules as efficient electron transport layers in organic optoelectronic devices. Journal of Materials Chemistry A, 2020, 8, 13501-13508.	5.2	19
33	Bistriphenylamine-based organic sensitizers with high molar extinction coefficients for dye-sensitized solar cells. RSC Advances, 2012, 2, 6209.	1.7	18
34	Fluorinated benzothiadiazole-based small molecules for photovoltaic applications. Synthetic Metals, 2016, 220, 455-461.	2.1	17
35	Reversible adsorption of conjugated amphiphilic dendrimers onto reduced graphene oxide (rGO) for fluorescence sensing. Soft Matter, 2011, 7, 8352.	1.2	16
36	Multifunctional Conjugated Polymers with Mainâ€Chain Donors and Sideâ€Chain Acceptors for Dye Sensitized Solar Cells (DSSCs) and Organic Photovoltaic Cells (OPVs). Macromolecular Rapid Communications, 2011, 32, 1809-1814.	2.0	16

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37	Iron Phthalocyanine/Graphene Composites as Promising Electrocatalysts for the Oxygen Reduction Reaction. Energies, 2020, 13, 4073.	1.6	15
38	Enhanced photovoltaic performance of quinoxaline-based donor-acceptor type polymers with monocyano substituent. Journal of Power Sources, 2021, 491, 229588.	4.0	15
39	Effect of Fluorine Atom on Photovoltaic Properties of Triphenylamine-Substituted Quinoxaline-Based D-A Type Polymers. Macromolecular Research, 2020, 28, 1297-1303.	1.0	15
40	A polymer/small-molecule binary-blend hole transport layer for enhancing charge balance in blue perovskite light emitting diodes. Journal of Materials Chemistry A, 2022, 10, 13928-13935.	5.2	15
41	Efficient dispersion of singlewalled carbon nanotubes by novel amphiphilic dendrimers in water and substitution of the pre-adsorbed dendrimers with conventional surfactants and lipids. Chemical Communications, 2010, 46, 7924.	2.2	14
42	Carbon Nanomaterials: Carbon Nanomaterials for Advanced Energy Conversion and Storage (Small) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	5.2	14
43	Superior electrocatalytic performance of polyisobutylene-substituted metallophthalocyanines supported on single-walled carbon nanotubes for an oxygen reduction reaction. Dyes and Pigments, 2019, 162, 662-670.	2.0	14
44	Roll-to-roll compatible quinoxaline-based polymers toward high performance polymer solar cells. Journal of Materials Chemistry A, 2020, 8, 25208-25216.	5.2	14
45	Effect of cyano substituent on photovoltaic properties of quinoxaline-based polymers. Journal of Industrial and Engineering Chemistry, 2020, 86, 244-250.	2.9	11
46	Covalently functionalized graphene with organic semiconductors for energy and optoelectronic applications. Materials Research Express, 2016, 3, 044001.	0.8	10
47	Synthesis of Trifluoromethylated Quinoxalineâ€Based Polymers for Photovoltaic Applications. Macromolecular Rapid Communications, 2018, 39, e1800260.	2.0	10
48	Assessment of Human Lung Macrophages After Exposure to Multi-Walled Carbon Nanotubes Part I. Cytotoxicity. Nanoscience and Nanotechnology Letters, 2011, 3, 88-93.	0.4	10
49	Improved photovoltaic performance of quinoxaline-based polymers by systematic modulation of electron-withdrawing substituents. Journal of Materials Chemistry C, 2022, 10, 10338-10346.	2.7	10
50	Photo-induced formation and self-assembling of gold nanoparticles in aqueous solution of amphiphilic dendrimers with oligo(p-phenylene vinylene) core branches and oligo(ethylene oxide) terminal chains. Nanotechnology, 2007, 18, 365605.	1.3	8
51	Preparation of poly(vinyl alcohol)/silver-zeolite composite hydrogels by UV-irradiation. Fibers and Polymers, 2014, 15, 101-107.	1.1	8
52	Enhanced open-circuit voltages of trifluoromethylated quinoxaline-based polymer solar cells. Organic Electronics, 2019, 65, 363-369.	1.4	8
53	Molecular engineering of conjugated polymers for solar cells and fieldâ€effect transistors: Sideâ€chain versus mainâ€chain electron acceptors. Journal of Polymer Science Part A, 2012, 50, 271-279.	2.5	6
54	Simple methoxy-substituted quinoxaline-based D-A type polymers for nonfullerene polymer solar cells. Dyes and Pigments, 2021, 192, 109346.	2.0	6

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55	Effect of electron-withdrawing fluorine and cyano substituents on photovoltaic properties of two-dimensional quinoxaline-based polymers. Scientific Reports, 2021, 11, 24381.	1.6	6
56	Large clusters and hollow microfibers by multicomponent self-assembly of citrate stabilized gold nanoparticles with temperature-responsive amphiphilic dendrimers. Journal of Materials Chemistry, 2012, 22, 13365.	6.7	5
57	Efficient energy transfer between amphiphilic dendrimers with oligo(pâ€phenylenevinylene) core branches and oligo(ethylene oxide) termini in micelles. Journal of Polymer Science Part A, 2013, 51, 168-175.	2.5	5
58	Terpyridine-Containing Imine-Rich Graphene for the Oxygen Reduction Reaction. Catalysts, 2017, 7, 338.	1.6	5
59	Synthesis of Quinoxaline-Based Small Molecules Possessing Multiple Electron-Withdrawing Moieties for Photovoltaic Applications. Macromolecular Research, 2019, 27, 1268-1274.	1.0	5
60	Synthesis of Cyano-Substituted Conjugated Polymers for Photovoltaic Applications. Polymers, 2019, 11, 746.	2.0	5
61	Assessment of Human Lung Macrophages After Exposure to Multi-Walled Carbon Nanotubes Part II. DNA Damage. Nanoscience and Nanotechnology Letters, 2011, 3, 94-98.	0.4	4
62	Effect of Electron-Withdrawing Chlorine Substituent on Morphological and Photovoltaic Properties of All Chlorinated Dâ€“A-Type Quinoxaline-Based Polymers. ACS Applied Materials & Interfaces, 2022, 14, 19785-19794.	4.0	4
63	Amphiphilic light-emitting dendrons with oligo(phenylene vinylene) branches and oligo(ethylene) Tj ETQq1 1 0.784314 rgBT /Overloc	2.1	2
64	Effect of multiple electron-withdrawing substituents on photovoltaic properties of quinoxaline-based polymers. Molecular Crystals and Liquid Crystals, 2019, 685, 14-21.	0.4	2
65	Co-Sensitized Mesoporous TiO2Solar Cells: Hybrid Sensitizer of SILAR-Grown CdS Quantum Dot (QD) and Molecular Dye (Z907) with a Metal Oxide Interlayer. Bulletin of the Korean Chemical Society, 2013, 34, 3183-3184.	1.0	2
66	Effect of fluorine substituents on photovoltaic properties of Dâ€“a type conjugated polymers with quinoxaline unit. Molecular Crystals and Liquid Crystals, 0, , 1-9.	0.4	2
67	Cathode modification of polymer solar cells by ultrahydrophobic polyelectrolyte. Molecular Crystals and Liquid Crystals, 2016, 635, 6-11.	0.4	1
68	Synthesis of low bandgap small molecules containing fluorinated benzothiadiazole and phenothiazine for photovoltaic applications. Molecular Crystals and Liquid Crystals, 2017, 653, 27-32.	0.4	1
69	Synthesis and characterization conjugated oligomer based on phenothiazine derivative. Molecular Crystals and Liquid Crystals, 2017, 653, 78-83.	0.4	1
70	Facile synthesis of nitrogen-doped graphene containing azobenzene moieties for the oxygen reduction reaction. Molecular Crystals and Liquid Crystals, 2017, 653, 33-38.	0.4	1
71	Influence of Acceptor Units with the Trifluoromethyl Group on Charge Transport in Donor–Acceptor Semiconducting Copolymer Films. Journal of Imaging Science and Technology, 2018, 62, 040404-1-040404-6.	0.3	1
72	Enhanced photovoltaic performance of quinoxaline-based small molecules through incorporating trifluoromethyl substituents. Molecular Crystals and Liquid Crystals, 2019, 685, 22-28.	0.4	1

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73	Synthesis of A-D-A type quinoxaline-based small molecules for organic photovoltaic cells. Molecular Crystals and Liquid Crystals, 2020, 705, 7-14.	0.4	1
74	Synthesis of quinoxaline-based D-A type conjugated polymers for photovoltaic applications. Molecular Crystals and Liquid Crystals, 2020, 705, 15-21.	0.4	1
75	Conjugated polymer electrolyte with nitrosonium tetrafluoroborate as the interlayer for polymer solar cells. Molecular Crystals and Liquid Crystals, 0, , 1-7.	0.4	1
76	Graphene/Multi-Walled Carbon Nanotubes Hybrid Materials for Supercapacitors. Clean Technology, 2015, 21, 62-67.	0.1	1
77	Strategic surface modification of ZnO interlayer for optimizing power conversion efficiency of solar cells based on quinoxaline-based polymer. Dyes and Pigments, 2022, 198, 110019.	2.0	1
78	Effect of electron-donating methoxy groups on photovoltaic properties of triphenylamine-substituted quinoxaline-based polymers. Molecular Crystals and Liquid Crystals, 0, , 1-7.	0.4	1
79	Graphene-organic small molecule hybrid electrocatalyst for oxygen reduction reaction. Molecular Crystals and Liquid Crystals, 2018, 660, 98-103.	0.4	0
80	Fluorine-substituted indolo-thiadiazoloquinoxaline-based D-A type polymers for photovoltaic applications. Molecular Crystals and Liquid Crystals, 0, , 1-8.	0.4	0