

Sungjin Park

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.

124
papers

36,891
citations

43
h-index

128
g-index

128
ext. papers

39,152
ext. citations

8.4
avg, IF

7.54
L-index

#	Paper	IF	Citations
124	Water-assisted formation of amine-bridged carbon nitride: A structural insight into the photocatalytic performance for H ₂ evolution under visible light. <i>Applied Catalysis B: Environmental</i> , 2022 , 310, 121313	21.7	0
123	Native point defects and low p-doping efficiency in Mg ₂ (Si,Sn) solid solutions: A hybrid-density functional study. <i>Journal of Alloys and Compounds</i> , 2021 , 853, 157145	5.6	5
122	On the relevance of point defects for the selection of contacting electrodes: Ag as an example for Mg ₂ (Si,Sn)-based thermoelectric generators. <i>Materials Today Physics</i> , 2021 , 16, 100309	7.8	3
121	Acid-activated carbon nitrides as photocatalysts for degrading organic pollutants under visible light. <i>Chemosphere</i> , 2021 , 273, 129731	8.4	9
120	Entropy stabilized off-stoichiometric cubic $\text{ECu}_{1-x}\text{I}_x$ phase containing high-density Cu vacancies. <i>AIP Advances</i> , 2021 , 11, 095018	1.5	
119	Ni Nanoparticles on Ni Core/N-Doped Carbon Shell Heterostructures for Electrocatalytic Oxygen Evolution. <i>ACS Applied Nano Materials</i> , 2021 , 4, 9418-9429	5.5	2
118	Effect of defect interactions with interstitial Ag in the lattice of Bi _x Sb _{2-x} Te ₃ alloys and their thermoelectric properties. <i>Applied Physics Letters</i> , 2021 , 118, 052102	3.3	2
117	Structural Analysis, Phase Stability, Electronic Band Structures, and Electric Transport Types of (Bi ₂) _m (Bi ₂ Te ₃) _n by Density Functional Theory Calculations. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 113415	2.5	1
116	Production of C, N Alternating 2D Materials Using Covalent Modification and Their Electroluminescence Performance. <i>Small Science</i> , 2021 , 1, 2000042		4
115	Effect of microstructure on thermoelectric conversion efficiency in metastable ϵ phase AgSbTe ₂ . <i>Acta Materialia</i> , 2021 , 222, 117443	8.3	0
114	Coordination structure of Jacobsen catalyst with N-modified graphene and their electrocatalytic properties for reducing oxygen molecules. <i>Applied Catalysis B: Environmental</i> , 2020 , 263, 118337	21.7	8
113	Production of B-doped reduced graphene oxide using wet-process in tetrahydrofuran. <i>Carbon Letters</i> , 2020 , 31, 887	2.3	3
112	Production of Metal-Free C, N Alternating Nanoplatelets and Their In Vivo Fluorescence Imaging Performance without Labeling. <i>Advanced Functional Materials</i> , 2020 , 30, 2004800	15.4	2
111	Thermoelectric Properties of Off-Stoichiometric Bi ₂ Te ₂ Se Compounds. <i>Journal of Electronic Materials</i> , 2020 , 49, 5308-5316	1.9	3
110	Photonic Synapses: Retina-Inspired Carbon Nitride-Based Photonic Synapses for Selective Detection of UV Light (Adv. Mater. 11/2020). <i>Advanced Materials</i> , 2020 , 32, 2070080	23.6	9
109	Retina-Inspired Carbon Nitride-Based Photonic Synapses for Selective Detection of UV Light. <i>Advanced Materials</i> , 2020 , 32, e1906899	23.6	90
108	Production of NiO/N-doped carbon hybrid and its electrocatalytic performance for oxygen evolution reactions. <i>Carbon Letters</i> , 2020 , 30, 485-491	2.3	5

107	Dramatic Change of Morphological, Photophysical, and Photocatalytic H ₂ Evolution Properties of C ₃ N ₄ Materials by the Removal of Carbon Impurities. <i>ACS Applied Energy Materials</i> , 2020 , 3, 4812-4820	6	10
106	Fine tuning of Fermi level by charged impurity-defect cluster formation and thermoelectric properties in n-type PbTe-based compounds. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 16488-16500	12.8	12
105	Hybrid-Functional and Quasi-Particle Calculations of Band Structures of Mg ₂ Si, Mg ₂ Ge, and Mg ₂ Sn. <i>Journal of the Korean Physical Society</i> , 2019 , 75, 144-152	0.5	10
104	Metal-free N-doped carbon blacks as excellent electrocatalysts for oxygen reduction reactions. <i>Carbon</i> , 2019 , 145, 481-487	10.1	20
103	Well-dispersed Pt nanoparticles on borane-modified graphene oxide and their electrocatalytic performance for oxygen reduction reaction. <i>Journal of Solid State Chemistry</i> , 2019 , 271, 168-174	3.3	4
102	Thin PEGylated Carbon Nitrides: Water-Dispersible Organic Nanodots as Bioimaging Probes. <i>Chemistry - A European Journal</i> , 2018 , 24, 3506-3511	4.6	25
101	⁴ He adsorption on a single C ₄₀ molecule: Path integral Monte Carlo study. <i>Journal of the Korean Physical Society</i> , 2018 , 72, 95-100	0.5	
100	Production of P, N Co-doped Graphene-Based Materials by a Solution Process and Their Electrocatalytic Performance for Oxygen Reduction Reaction. <i>ChemNanoMat</i> , 2018 , 4, 118-123	3.5	17
99	Control of oxygen content of n-type Bi ₂ Te ₃ based compounds by sintering process and their thermoelectric properties. <i>Materials Letters</i> , 2018 , 230, 211-214	3.2	5
98	Structural insights into photocatalytic performance of carbon nitrides for degradation of organic pollutants. <i>Journal of Solid State Chemistry</i> , 2018 , 258, 559-565	3.3	9
97	Production of N-doped Reduced Graphene Oxide/Fe ₃ O ₄ Hybrids and Effect of Order of Production Steps on Electrocatalytic Performances for Oxygen Reduction Reaction. <i>ChemistrySelect</i> , 2018 , 3, 12690-12695	1.8	3
96	Control of CO Capture Process on Transition-Metal-Porphyrin-like Graphene with Mechanical Strain. <i>ACS Omega</i> , 2018 , 3, 10554-10563	3.8	6
95	PU-RGO Composite; Effect of Chain Extender Structure on Properties. <i>Journal of Nanoscience and Nanotechnology</i> , 2017 , 17, 7480-7484	1.2	0
94	PU-Graphene Oxide Composite; Effect of Various Chain Extender on Properties. <i>Journal of Nanoscience and Nanotechnology</i> , 2017 , 17, 2541-544	1.2	
93	Molecularly dispersed nickel-containing species on the carbon nitride network as electrocatalysts for the oxygen evolution reaction. <i>Carbon</i> , 2017 , 124, 180-187	10.1	45
92	Ni-O ₄ species anchored on N-doped graphene-based materials as molecular entities and electrocatalytic performances for oxygen reduction reaction. <i>Solid State Sciences</i> , 2017 , 74, 56-61	3.4	3
91	Electrocatalysts composed of a Co(acetylacetonate) ₂ molecule and refluxed graphene oxide for an oxygen reduction reaction. <i>New Journal of Chemistry</i> , 2017 , 41, 6203-6209	3.5	5
90	Effect of flow-field structure on discharging and charging behavior of hydrogen/bromine redox flow batteries. <i>Electrochimica Acta</i> , 2017 , 230, 160-173	6.7	15

89	Preparation of silicon nanoball encapsulated with graphene shell by CVD and electroless plating process. <i>Journal of Industrial and Engineering Chemistry</i> , 2017 , 50, 115-122	6.2	6
88	CNT branching of three-dimensional steam-activated graphene hybrid frameworks for excellent rate and cyclic capabilities to store lithium ions. <i>Carbon</i> , 2017 , 116, 500-509	10.1	22
87	Cobalt-Based Active Species Molecularly Immobilized on Carbon Nanotubes for the Oxygen Reduction Reaction. <i>ChemSusChem</i> , 2017 , 10, 3473-3481	8.2	16
86	New insight of the photocatalytic behaviors of graphitic carbon nitrides for hydrogen evolution and their associations with grain size, porosity, and photophysical properties. <i>Applied Catalysis B: Environmental</i> , 2017 , 218, 349-358	21.7	55
85	Tunable Red-Yellow Coloration of FeOOH Pigments by Coating and Controlling Morphology. <i>Journal of Nanoscience and Nanotechnology</i> , 2017 , 17, 3424-3429	1.2	1
84	Synthesis of ¹³ C, ¹⁵ N-Labeled Graphitic Carbon Nitrides and NMR-Based Evidence of Hydrogen-Bonding Assisted Two-Dimensional Assembly. <i>Chemistry of Materials</i> , 2017 , 29, 5080-5089	9.5	64
83	The Effect of KOH Treatment on the Chemical Structure and Electrocatalytic Activity of Reduced Graphene Oxide Materials. <i>Chemistry - A European Journal</i> , 2016 , 22, 11435-40	4.6	5
82	UbFluor: A Mechanism-Based Probe for HECT E3 Ligases. <i>Chemical Science</i> , 2016 , 7, 5587-5595	9.1	13
81	Production of Metal-Free Composites Composed of Graphite Oxide and Oxidized Carbon Nitride Nanodots and Their Enhanced Photocatalytic Performances. <i>Chemistry - A European Journal</i> , 2016 , 22, 5142-5	4.6	15
80	Preparation of Graphene Encapsulated Silicon Nanoball. <i>Journal of Nanoscience and Nanotechnology</i> , 2016 , 16, 1756-60	1.2	
79	Thickness-dependent photocatalytic performance of graphite oxide for degrading organic pollutants under visible light. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 10882-6	3.5	13
78	Electrochemistry of Layered Graphitic Carbon Nitride Synthesised from Various Precursors: Searching for Catalytic Effects. <i>ChemPhysChem</i> , 2016 , 17, 481-8	3.1	12
77	Solvothermal reduction of graphene oxide in dimethylformamide. <i>Solid State Sciences</i> , 2016 , 61, 40-43	3.4	22
76	Electrocatalytic performances of heteroatom-containing functionalities in N-doped reduced graphene oxides. <i>Journal of Industrial and Engineering Chemistry</i> , 2016 , 42, 149-156	6.2	19
75	Electrocatalytic performances of N-doped graphene with anchored iridium species in oxygen reduction reaction. <i>2D Materials</i> , 2015 , 2, 034019	5.7	19
74	Synthesis and characterization of chemically modified graphenes. <i>Current Opinion in Colloid and Interface Science</i> , 2015 , 20, 322-328	7.4	23
73	Effect of degree of reduction on the anode performance of reduced graphene oxide in Li-ion batteries. <i>RSC Advances</i> , 2015 , 5, 86237-86241	3.6	8
72	Electrical and mechanical properties of polyethylene/MWCNT composites produced by polymerization using Cp ₂ ZrCl ₂ supported on MWCNTs. <i>Macromolecular Research</i> , 2015 , 23, 713-718	1.9	7

71	Direct exfoliation and dispersion of two-dimensional materials in pure water via temperature control. <i>Nature Communications</i> , 2015 , 6, 8294	16.9	216
70	One-Pot Self-Assembled, Reduced Graphene Oxide/Palladium Nanoparticle Hybrid Aerogels for Electrocatalytic Applications. <i>Electrochimica Acta</i> , 2015 , 180, 902-908	6.7	16
69	Protein ubiquitination and formation of polyubiquitin chains without ATP, E1 and E2 enzymes. <i>Chemical Science</i> , 2015 , 6, 1770-1779	9.1	17
68	Coordination Chemistry of [Co(acac) ₂] with N-Doped Graphene: Implications for Oxygen Reduction Reaction Reactivity of Organometallic Co-O ₄ -N Species. <i>Angewandte Chemie</i> , 2015 , 127, 12813-12817	3.5	8
67	Oxidized carbon nitrides: water-dispersible, atomically thin carbon nitride-based nanodots and their performances as bioimaging probes. <i>Chemistry - A European Journal</i> , 2015 , 21, 6241-6	4.6	74
66	Coordination Chemistry of [Co(acac) ₂] with N-Doped Graphene: Implications for Oxygen Reduction Reaction Reactivity of Organometallic Co-O ₄ -N Species. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 12622-6	16.1	77
65	Interlayer correlation between two He ₄ monolayers adsorbed on both sides of a graphyne. <i>Physical Review B</i> , 2015 , 92,	3.3	3
64	Anisotropic superfluidity of (4)He on a C ₃₆ fullerene molecule. <i>Journal of Chemical Physics</i> , 2015 , 143, 104311	3.8	4
63	4He adsorption on a H ₂ -plated C ₂₀ molecular surface: the formation of helium buckyballs. <i>Physical Review E</i> , 2014 , 89, 042118	2.4	5
62	Large-scale graphene-based composite films for flexible transparent electrodes fabricated by electro spray deposition. <i>Materials Research Express</i> , 2014 , 1, 046404	1.6	1
61	Graphene oxide-assisted production of carbon nitrides using a solution process and their photocatalytic activity. <i>Carbon</i> , 2014 , 66, 119-125	10.1	49
60	Synthesis of boron and nitrogen co-doped graphene nano-platelets using a two-step solution process and catalytic properties for oxygen reduction reaction. <i>Solid State Sciences</i> , 2014 , 33, 1-5	3.4	21
59	Production of novel FeOOH/reduced graphene oxide hybrids and their performance as oxygen reduction reaction catalysts. <i>Carbon</i> , 2014 , 80, 127-134	10.1	35
58	Finely tuning oxygen functional groups of graphene materials and optimizing oxygen levels for capacitors. <i>RSC Advances</i> , 2014 , 4, 36377	3.6	25
57	CO ₂ -activated, hierarchical trimodal porous graphene frameworks for ultrahigh and ultrafast capacitive behavior. <i>Nanoscale</i> , 2014 , 6, 5296-302	7.5	61
56	Borane-modified graphene-based materials as CO ₂ adsorbents. <i>Carbon</i> , 2014 , 79, 450-456	10.1	42
55	Graphene-wrapped and cobalt oxide-intercalated hybrid for extremely durable super-capacitor with ultrahigh energy and power densities. <i>Carbon</i> , 2014 , 79, 192-202	10.1	138
54	Effects of sulfur doping on graphene-based nanosheets for use as anode materials in lithium-ion batteries. <i>Journal of Power Sources</i> , 2014 , 262, 79-85	8.8	179

53	Colloidal suspensions of N-modified graphene nano-platelets in water and organic solvent/water mixed systems. <i>Solid State Sciences</i> , 2014 , 27, 1-4	3.4	15
52	Solution-based production of graphene nano-platelets containing extremely low amounts of heteroatoms. <i>Solid State Sciences</i> , 2013 , 25, 1-5	3.4	9
51	Scalable functionalized graphene nano-platelets as tunable cathodes for high-performance lithium rechargeable batteries. <i>Scientific Reports</i> , 2013 , 3, 1506	4.7	78
50	Salting-out as a scalable, in-series purification method of graphene oxides from microsheets to quantum dots. <i>Carbon</i> , 2013 , 63, 45-53	10.1	16
49	Generation of B-doped graphene nanoplatelets using a solution process and their supercapacitor applications. <i>ACS Nano</i> , 2013 , 7, 19-26	16.4	467
48	Microporous carbon nanoplates from regenerated silk proteins for supercapacitors. <i>Advanced Materials</i> , 2013 , 25, 1993-8	23.6	419
47	Solution-processable conductive micro-hydrogels of nanoparticle/graphene platelets produced by reversible self-assembly and aqueous exfoliation. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 12900	12.8	15
46	Generation of ultra-high-molecular-weight polyethylene from metallocenes immobilized onto N-doped graphene nanoplatelets. <i>Macromolecular Rapid Communications</i> , 2013 , 34, 533-8	4.6	35
45	Path-integral Monte Carlo study of asymmetric quantum quadrupolar rotors with fourth-order propagators. <i>Journal of the Korean Physical Society</i> , 2012 , 61, 513-517	0.5	
44	Residual acetone produces explosives during the production of graphite oxide. <i>Carbon</i> , 2012 , 50, 1442-1444	14.4	12
43	The effect of concentration of graphene nanoplatelets on mechanical and electrical properties of reduced graphene oxide papers. <i>Carbon</i> , 2012 , 50, 4573-4578	10.1	75
42	In-situ generation of a well-dispersed multiwall carbon nanotube/syndiotactic polystyrene composite using pentamethylcyclopentadienyltitanium trimethoxide anchored to multiwall carbon nanotubes. <i>Polymer</i> , 2012 , 53, 933-938	3.8	2
41	Defect-engineered three-dimensional graphene-nanotube-palladium nanostructures with ultrahigh capacitance. <i>ACS Nano</i> , 2012 , 6, 10562-70	16.4	122
40	Mechanism-based small molecule cross-linkers of HECT E3 ubiquitin ligase-substrate pairs. <i>Biochemistry</i> , 2012 , 51, 8327-9	3.1	5
39	Chemical structures of hydrazine-treated graphene oxide and generation of aromatic nitrogen doping. <i>Nature Communications</i> , 2012 , 3, 638	16.9	296
38	Facile mass production of thermally reduced graphene oxide. <i>Carbon Letters</i> , 2012 , 13, 48-50	2.3	10
37	Luminescence Quenching of a Novel Phosphorescent Ir(III) Complex/MWCNT Hybrid. <i>Bulletin of the Korean Chemical Society</i> , 2012 , 33, 1367-1370	1.2	
36	Toward practical gas sensing with highly reduced graphene oxide: a new signal processing method to circumvent run-to-run and device-to-device variations. <i>ACS Nano</i> , 2011 , 5, 1154-64	16.4	309

35	Novel Dinuclear Half-Titanocene-Producing Styrene/Ethylene Copolymers Containing Syndiotactic Styrene/Styrene Sequences. <i>Macromolecular Chemistry and Physics</i> , 2011 , 212, 785-789	2.5	7
34	Simultaneous Reduction and Surface Functionalization of Graphene Oxide by Mussel-Inspired Chemistry. <i>Advanced Functional Materials</i> , 2011 , 21, 108-112	15.4	360
33	Hydrazine-reduction of graphite- and graphene oxide. <i>Carbon</i> , 2011 , 49, 3019-3023	10.1	1179
32	Large-area graphene films by simple solution casting of edge-selectively functionalized graphite. <i>ACS Nano</i> , 2011 , 5, 4974-80	16.4	84
31	Mechanistic Study of Half-titanocene-based Reductive Pinacol Coupling Reaction. <i>Bulletin of the Korean Chemical Society</i> , 2011 , 32, 3973-3978	1.2	5
30	NMR-based structural modeling of graphite oxide using multidimensional ¹³ C solid-state NMR and ab initio chemical shift calculations. <i>Journal of the American Chemical Society</i> , 2010 , 132, 5672-6	16	195
29	The chemistry of graphene oxide. <i>Chemical Society Reviews</i> , 2010 , 39, 228-40	57.5	8607
28	Thin Film Fabrication and Simultaneous Anodic Reduction of Deposited Graphene Oxide Platelets by Electrophoretic Deposition. <i>Journal of Physical Chemistry Letters</i> , 2010 , 1, 1259-1263	6.3	384
27	Biocompatible, robust free-standing paper composed of a TWEEN/graphene composite. <i>Advanced Materials</i> , 2010 , 22, 1736-40	23.6	336
26	All-Organic Vapor Sensor Using Inkjet-Printed Reduced Graphene Oxide. <i>Angewandte Chemie</i> , 2010 , 122, 2200-2203	3.5	81
25	All-organic vapor sensor using inkjet-printed reduced graphene oxide. <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 2154-7	16.1	748
24	Polymer Brushes via Controlled, Surface-Initiated Atom Transfer Radical Polymerization (ATRP) from Graphene Oxide. <i>Macromolecular Rapid Communications</i> , 2010 , 31, 281-8	4.6	318
23	Anomalous ferromagnetism in manganites by finite block spin phenomenology. <i>Solid State Communications</i> , 2010 , 150, 2178-2181	1.6	
22	Graphene-based actuators. <i>Small</i> , 2010 , 6, 210-2	10.8	233
21	Production of Ultrahigh-Molecular-Weight Polyethylene/Pristine MWCNT Composites by Half-Titanocene Catalysts. <i>Advanced Materials</i> , 2009 , 21, 902-905	23.6	34
20	Facile, noncovalent decoration of graphene oxide sheets with nanocrystals. <i>Nano Research</i> , 2009 , 2, 192-200	9.0	135
19	Chemical methods for the production of graphenes. <i>Nature Nanotechnology</i> , 2009 , 4, 217-24	28	5442
18	Chemical analysis of graphene oxide films after heat and chemical treatments by X-ray photoelectron and Micro-Raman spectroscopy. <i>Carbon</i> , 2009 , 47, 145-152	10.1	2584

17	Colloidal suspensions of highly reduced graphene oxide in a wide variety of organic solvents. <i>Nano Letters</i> , 2009 , 9, 1593-7	11.3	1368
16	Integration of reduced graphene oxide into organic field-effect transistors as conducting electrodes and as a metal modification layer. <i>Applied Physics Letters</i> , 2009 , 95, 023304	3.3	75
15	Electrogenerated chemiluminescence of partially oxidized highly oriented pyrolytic graphite surfaces and of graphene oxide nanoparticles. <i>Journal of the American Chemical Society</i> , 2009 , 131, 937-9 ¹⁶		102
14	Graphene Oxide Sheets Chemically Cross-Linked by Polyallylamine. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 15801-15804	3.7	441
13	Photophysical properties of noncovalently functionalized multi-walled carbon nanotubes with poly-para-hydroxystyrene. <i>Carbon</i> , 2008 , 46, 714-716	10.1	4
12	Graphene-based ultracapacitors. <i>Nano Letters</i> , 2008 , 8, 3498-502	11.3	6716
11	Aqueous Suspension and Characterization of Chemically Modified Graphene Sheets. <i>Chemistry of Materials</i> , 2008 , 20, 6592-6594	9.5	830
10	Graphene oxide papers modified by divalent ions-enhancing mechanical properties via chemical cross-linking. <i>ACS Nano</i> , 2008 , 2, 572-8	16.4	1405
9	Effect of Water Vapor on Electrical Properties of Individual Reduced Graphene Oxide Sheets. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 20264-20268	3.7	289
8	Pristine Multiwalled Carbon Nanotube/Polyethylene Nanocomposites by Immobilized Catalysts. <i>Chemistry of Materials</i> , 2008 , 20, 4588-4594	9.5	43
7	Synthesis and solid-state NMR structural characterization of ¹³ C-labeled graphite oxide. <i>Science</i> , 2008 , 321, 1815-7	32.2	991
6	Dinuclear Metallocenes with a Modulated Biphenylene Bridge for Olefin Polymerization. <i>European Journal of Inorganic Chemistry</i> , 2007 , 2007, 537-545	2.3	7
5	Synthesis, characterization, and ethylene polymerizations of various N ^o chelated mono Cp* titanium complexes. <i>Journal of Organometallic Chemistry</i> , 2007 , 692, 1633-1640	2.2	7
4	Immobilization of Ti(OiPr) ₄ onto silicon oxide surfaces and surface-initiated polymerization of ϵ -caprolactone. <i>Journal of Polymer Science Part A</i> , 2006 , 44, 3711-3716	2.4	8
3	Carbon Nanotubes as a Ligand in Cp ₂ ZrCl ₂ -Based Ethylene Polymerization. <i>Macromolecular Rapid Communications</i> , 2006 , 27, 47-50	4.6	42
2	Non-Cp type homogeneous catalytic systems for olefin polymerization. <i>Journal of Organometallic Chemistry</i> , 2004 , 689, 4263-4276	2.2	67
1	Production of Fe ₃ C/N-doped carbon hybrid and its electrocatalytic performance for oxygen evolution reactions. <i>Carbon Letters</i> , 1	2.3	