

Sungjin Park

List of Publications by Year in descending order

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124
papers

42,046
citations

57631

44
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122
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128
all docs

128
docs citations

128
times ranked

41418
citing authors

#	ARTICLE	IF	CITATIONS
1	The chemistry of graphene oxide. <i>Chemical Society Reviews</i> , 2010, 39, 228-240.	18.7	9,923
2	Graphene-Based Ultracapacitors. <i>Nano Letters</i> , 2008, 8, 3498-3502.	4.5	7,599
3	Chemical methods for the production of graphenes. <i>Nature Nanotechnology</i> , 2009, 4, 217-224.	15.6	6,035
4	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.	5.4	2,924
5	Graphene Oxide Papers Modified by Divalent Ions via Chemical Cross-Linking. <i>ACS Nano</i> , 2008, 2, 572-578.	7.3	1,610
6	Colloidal Suspensions of Highly Reduced Graphene Oxide in a Wide Variety of Organic Solvents. <i>Nano Letters</i> , 2009, 9, 1593-1597.	4.5	1,502
7	Hydrazine-reduction of graphite- and graphene oxide. <i>Carbon</i> , 2011, 49, 3019-3023.	5.4	1,397
8	Synthesis and Solid-State NMR Structural Characterization of ¹³ C-Labeled Graphite Oxide. <i>Science</i> , 2008, 321, 1815-1817.	6.0	1,092
9	Aqueous Suspension and Characterization of Chemically Modified Graphene Sheets. <i>Chemistry of Materials</i> , 2008, 20, 6592-6594.	3.2	905
10	All-Organic Vapor Sensor Using Inkjet-Printed Reduced Graphene Oxide. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 2154-2157.	7.2	834
11	Generation of B-Doped Graphene Nanoplatelets Using a Solution Process and Their Supercapacitor Applications. <i>ACS Nano</i> , 2013, 7, 19-26.	7.3	532
12	Graphene Oxide Sheets Chemically Cross-Linked by Polyallylamine. <i>Journal of Physical Chemistry C</i> , 2009, 113, 15801-15804.	1.5	483
13	Microporous Carbon Nanoplates from Regenerated Silk Proteins for Supercapacitors. <i>Advanced Materials</i> , 2013, 25, 1993-1998.	11.1	480
14	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.	2.1	436
15	Simultaneous Reduction and Surface Functionalization of Graphene Oxide by Mussel-Inspired Chemistry. <i>Advanced Functional Materials</i> , 2011, 21, 108-112.	7.8	409
16	Biocompatible, Robust Free-Standing Paper Composed of a TWEEN/Graphene Composite. <i>Advanced Materials</i> , 2010, 22, 1736-1740.	11.1	363
17	Chemical structures of hydrazine-treated graphene oxide and generation of aromatic nitrogen doping. <i>Nature Communications</i> , 2012, 3, 638.	5.8	354
18	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, 1154-1164.	7.3	353

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19	Polymer Brushes via Controlled, Surface-Initiated Atom Transfer Radical Polymerization (ATRP) from Graphene Oxide. <i>Macromolecular Rapid Communications</i> , 2010, 31, 281-288.	2.0	350
20	Effect of Water Vapor on Electrical Properties of Individual Reduced Graphene Oxide Sheets. <i>Journal of Physical Chemistry C</i> , 2008, 112, 20264-20268.	1.5	321
21	Direct exfoliation and dispersion of two-dimensional materials in pure water via temperature control. <i>Nature Communications</i> , 2015, 6, 8294.	5.8	277
22	Graphene-Based Actuators. <i>Small</i> , 2010, 6, 210-212.	5.2	261
23	Retina-Inspired Carbon Nitride-Based Photonic Synapses for Selective Detection of UV Light. <i>Advanced Materials</i> , 2020, 32, e1906899.	11.1	222
24	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, 5672-5676.	6.6	218
25	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.	4.0	203
26	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.	5.4	166
27	Facile, noncovalent decoration of graphene oxide sheets with nanocrystals. <i>Nano Research</i> , 2009, 2, 192-200.	5.8	145
28	Defect-Engineered Three-Dimensional Graphene-Nanotube-Palladium Nanostructures with Ultrahigh Capacitance. <i>ACS Nano</i> , 2012, 6, 10562-10570.	7.3	141
29	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, 937-939.	6.6	107
30	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.	3.2	106
31	Large-Area Graphene Films by Simple Solution Casting of Edge-Selectively Functionalized Graphite. <i>ACS Nano</i> , 2011, 5, 4974-4980.	7.3	98
32	Coordination Chemistry of [Co(acac) ₂] with N-Doped Graphene: Implications for Oxygen Reduction Reaction Reactivity of Organometallic Co ₄ -N Species. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 12622-12626.	7.2	93
33	The effect of concentration of graphene nanoplatelets on mechanical and electrical properties of reduced graphene oxide papers. <i>Carbon</i> , 2012, 50, 4573-4578.	5.4	90
34	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, 6241-6246.	1.7	90
35	Scalable Functionalized Graphene Nano-platelets as Tunable Cathodes for High-performance Lithium Rechargeable Batteries. <i>Scientific Reports</i> , 2013, 3, 1506.	1.6	84
36	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, .	1.5	81

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37	New insight of the photocatalytic behaviors of graphitic carbon nitrides for hydrogen evolution and their associations with grain size, porosity, and photophysical properties. Applied Catalysis B: Environmental, 2017, 218, 349-358.	10.8	77
38	Non-Cp type homogeneous catalytic systems for olefin polymerization. Journal of Organometallic Chemistry, 2004, 689, 4263-4276.	0.8	70
39	CO ₂ -activated, hierarchical trimodal porous graphene frameworks for ultrahigh and ultrafast capacitive behavior. Nanoscale, 2014, 6, 5296-5302.	2.8	68
40	Molecularly dispersed nickel-containing species on the carbon nitride network as electrocatalysts for the oxygen evolution reaction. Carbon, 2017, 124, 180-187.	5.4	55
41	Borane-modified graphene-based materials as CO ₂ adsorbents. Carbon, 2014, 79, 450-456.	5.4	53
42	Graphene oxide-assisted production of carbon nitrides using a solution process and their photocatalytic activity. Carbon, 2014, 66, 119-125.	5.4	49
43	Carbon Nanotubes as a Ligand in Cp ₂ ZrCl ₂ -Based Ethylene Polymerization. Macromolecular Rapid Communications, 2006, 27, 47-50.	2.0	45
44	Pristine Multiwalled Carbon Nanotube/Polyethylene Nanocomposites by Immobilized Catalysts. Chemistry of Materials, 2008, 20, 4588-4594.	3.2	44
45	Production of novel FeOOH/reduced graphene oxide hybrids and their performance as oxygen reduction reaction catalysts. Carbon, 2014, 80, 127-134.	5.4	42
46	Generation of Ultra-High-Molecular-Weight Polyethylene from Metallocenes Immobilized onto N-Doped Graphene Nanoplatelets. Macromolecular Rapid Communications, 2013, 34, 533-538.	2.0	40
47	Production of Ultra-High-Molecular-Weight Polyethylene/Pristine MWCNT Composites by Half-Titanocene Catalysts. Advanced Materials, 2009, 21, 902-905.	11.1	38
48	Water-assisted formation of amine-bridged carbon nitride: A structural insight into the photocatalytic performance for H ₂ evolution under visible light. Applied Catalysis B: Environmental, 2022, 310, 121313.	10.8	37
49	Thin PEGylated Carbon Nitrides: Water-Dispersible Organic Nanodots as Bioimaging Probes. Chemistry - A European Journal, 2018, 24, 3506-3511.	1.7	35
50	Solvothermal reduction of graphene oxide in dimethylformamide. Solid State Sciences, 2016, 61, 40-43.	1.5	33
51	Metal-free N-doped carbon blacks as excellent electrocatalysts for oxygen reduction reactions. Carbon, 2019, 145, 481-487.	5.4	33
52	Production of P, N Co-Doped Graphene-Based Materials by a Solution Process and Their Electrocatalytic Performance for Oxygen Reduction Reaction. ChemNanoMat, 2018, 4, 118-123.	1.5	28
53	Finely tuning oxygen functional groups of graphene materials and optimizing oxygen levels for capacitors. RSC Advances, 2014, 4, 36377.	1.7	27
54	Synthesis and characterization of chemically modified graphenes. Current Opinion in Colloid and Interface Science, 2015, 20, 322-328.	3.4	27

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55	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.	5.4	27
56	Effect of flow-field structure on discharging and charging behavior of hydrogen/bromine redox flow batteries. <i>Electrochimica Acta</i> , 2017, 230, 160-173.	2.6	24
57	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.	5.2	24
58	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.	1.5	23
59	Protein ubiquitination and formation of polyubiquitin chains without ATP, E1 and E2 enzymes. <i>Chemical Science</i> , 2015, 6, 1770-1779.	3.7	23
60	Salting-out as a scalable, in-series purification method of graphene oxides from microsheets to quantum dots. <i>Carbon</i> , 2013, 63, 45-53.	5.4	22
61	Electrocatalytic performances of heteroatom-containing functionalities in N-doped reduced graphene oxides. <i>Journal of Industrial and Engineering Chemistry</i> , 2016, 42, 149-156.	2.9	22
62	UbFluor: a mechanism-based probe for HECT E3 ligases. <i>Chemical Science</i> , 2016, 7, 5587-5595.	3.7	21
63	Structural insights into photocatalytic performance of carbon nitrides for degradation of organic pollutants. <i>Journal of Solid State Chemistry</i> , 2018, 258, 559-565.	1.4	21
64	Acid-activated carbon nitrides as photocatalysts for degrading organic pollutants under visible light. <i>Chemosphere</i> , 2021, 273, 129731.	4.2	21
65	Ni Nanoparticles on Ni Core/N-Doped Carbon Shell Heterostructures for Electrocatalytic Oxygen Evolution. <i>ACS Applied Nano Materials</i> , 2021, 4, 9418-9429.	2.4	21
66	Electrocatalytic performances of N-doped graphene with anchored iridium species in oxygen reduction reaction. <i>2D Materials</i> , 2015, 2, 034019.	2.0	20
67	Cobalt-Based Active Species Molecularly Immobilized on Carbon Nanotubes for the Oxygen Reduction Reaction. <i>ChemSusChem</i> , 2017, 10, 3473-3481.	3.6	20
68	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.	0.3	20
69	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.	2.5	20
70	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, 5142-5145.	1.7	19
71	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.	2.9	19
72	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.	5.2	18

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73	One-Pot Self-Assembled, Reduced Graphene Oxide/Palladium Nanoparticle Hybrid Aerogels for Electrocatalytic Applications. <i>Electrochimica Acta</i> , 2015, 180, 902-908.	2.6	18
74	Effect of microstructure on thermoelectric conversion efficiency in metastable $\hat{\Gamma}$ -phase AgSbTe ₂ . <i>Acta Materialia</i> , 2022, 222, 117443.	3.8	18
75	Residual acetone produces explosives during the production of graphite oxide. <i>Carbon</i> , 2012, 50, 1442-1444.	5.4	16
76	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.	1.5	16
77	Electrochemistry of Layered Graphitic Carbon Nitride Synthesised from Various Precursors: Searching for Catalytic Effects. <i>ChemPhysChem</i> , 2016, 17, 481-488.	1.0	16
78	Photonic Synapses: Retina-Inspired Carbon Nitride-Based Photonic Synapses for Selective Detection of UV Light (<i>Adv. Mater.</i> 11/2020). <i>Advanced Materials</i> , 2020, 32, 2070080.	11.1	16
79	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.	2.8	16
80	Overcoming Asymmetric Contact Resistances in Al-Contacted Mg ₂ (Si,Sn) Thermoelectric Legs. <i>Materials</i> , 2021, 14, 6774.	1.3	14
81	Thickness-dependent photocatalytic performance of graphite oxide for degrading organic pollutants under visible light. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 10882-10886.	1.3	13
82	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.	10.8	13
83	Production of NiO/N-doped carbon hybrid and its electrocatalytic performance for oxygen evolution reactions. <i>Carbon Letters</i> , 2020, 30, 485-491.	3.3	13
84	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.	1.7	12
85	Facile mass production of thermally reduced graphene oxide. <i>Carbon Letters</i> , 2012, 13, 48-50.	3.3	12
86	Dinuclear Metallocenes with a Modulated Biphenylene Bridge for Olefin Polymerization. <i>European Journal of Inorganic Chemistry</i> , 2007, 2007, 537-545.	1.0	9
87	Novel Dinuclear Half-Titanocene-Producing Styrene/Ethylene Copolymers Containing Syndiotactic Styrene/Styrene Sequences. <i>Macromolecular Chemistry and Physics</i> , 2011, 212, 785-789.	1.1	9
88	Solution-based production of graphene nano-platelets containing extremely low amounts of heteroatoms. <i>Solid State Sciences</i> , 2013, 25, 1-5.	1.5	9
89	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.	1.3	9
90	Production of B-doped reduced graphene oxide using wet-process in tetrahydrofuran. <i>Carbon Letters</i> , 2021, 31, 887-893.	3.3	9

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91	Production of C, N Alternating 2D Materials Using Covalent Modification and Their Electroluminescence Performance. <i>Small Science</i> , 2021, 1, 2000042.	5.8	9
92	Immobilization of Ti(OiPr) ₄ onto silicon oxide surfaces and surface-initiated polymerization of μ -caprolactone. <i>Journal of Polymer Science Part A</i> , 2006, 44, 3711-3716.	2.5	8
93	Synthesis, characterization, and ethylene polymerizations of various Nâ€“O chelated mono Cpâˆ— titanium complexes. <i>Journal of Organometallic Chemistry</i> , 2007, 692, 1633-1640.	0.8	8
94	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.	2.9	8
95	Effect of defect interactions with interstitial Ag in the lattice of Bi_x/i>Sb_{2-2x}/i>Te₃ alloys and their thermoelectric properties. <i>Applied Physics Letters</i> , 2021, 118, .	1.5	8
96	Photophysical properties of noncovalently functionalized multi-walled carbon nanotubes with poly-para-hydroxystyrene. <i>Carbon</i> , 2008, 46, 714-716.	5.4	7
97	Mechanism-Based Small Molecule Cross-Linkers of HECT E3 Ubiquitin Ligaseâ€™Substrate Pairs. <i>Biochemistry</i> , 2012, 51, 8327-8329.	1.2	7
98	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.	1.0	7
99	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.	1.4	7
100	Control of CO₂ Capture Process on Transition-Metal-Porphyrin-like Graphene with Mechanical Strain. <i>ACS Omega</i> , 2018, 3, 10554-10563.	1.6	7
101	Mechanistic Study of Half-titanocene-based Reductive Pinacol Coupling Reaction. <i>Bulletin of the Korean Chemical Society</i> , 2011, 32, 3973-3978.	1.0	6
102	He ₄ adsorption on aH ₂ -platedC ₂₀ molecular surface: The formation of helium buckyballs. <i>Physical Review E</i> , 2014, 89, 042118.	0.8	5
103	Anisotropic superfluidity of 4He on a C ₃₆ fullerene molecule. <i>Journal of Chemical Physics</i> , 2015, 143, 104311.	1.2	5
104	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, 11435-11440.	1.7	5
105	Production of Nâ€doped Reduced Graphene Oxide/Fe₃O₄ Hybrids and Effect of Order of Production Steps on Electrocatalytic Performances for Oxygen Reduction Reaction. <i>ChemistrySelect</i> , 2018, 3, 12690-12695.	0.7	5
106	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.	1.4	5
107	Production of Metalâ€Free C, N Alternating Nanoplatelets and Their In Vivo Fluorescence Imaging Performance without Labeling. <i>Advanced Functional Materials</i> , 2020, 30, 2004800.	7.8	5
108	Production of Fe ₃ C/N-doped carbon hybrid and its electrocatalytic performance for oxygen evolution reactions. <i>Carbon Letters</i> , 2022, 32, 885-892.	3.3	5

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109	Correlation between two He monolayers adsorbed on both sides of graphene .	1.1	4
110	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.	1.5	4
111	Thermoelectric Properties of Off-Stoichiometric $\text{Bi}_2\text{Te}_2\text{Se}$ Compounds. <i>Journal of Electronic Materials</i> , 2020, 49, 5308-5316.	1.0	4
112	Entropy stabilized off-stoichiometric cubic Cu_3Cu_4 phase containing high-density Cu vacancies. <i>AIP Advances</i> , 2021, 11, .	0.6	3
113	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.	1.8	2
114	Large-scale graphene-based composite films for flexible transparent electrodes fabricated by electrospray deposition. <i>Materials Research Express</i> , 2014, 1, 046404.	0.8	2
115	Tunable Red-Yellow Coloration of FeOOH Pigments by Coating and Controlling Morphology. <i>Journal of Nanoscience and Nanotechnology</i> , 2017, 17, 3424-3429.	0.9	2
116	PU-RGO Composite; Effect of Chain Extender's Structure on Properties. <i>Journal of Nanoscience and Nanotechnology</i> , 2017, 17, 7480-7484.	0.9	2
117	Off-Centered Pb Interstitials in PbTe . <i>Materials</i> , 2022, 15, 1272.	1.3	2
118	Preparation of Graphene Encapsulated Silicon Nanoball. <i>Journal of Nanoscience and Nanotechnology</i> , 2016, 16, 1756-1760.	0.9	1
119	Structural Analysis, Phase Stability, Electronic Band Structures, and Electric Transport Types of $(\text{Bi}_2)_m(\text{Bi}_2\text{Te}_3)_n$ by Density Functional Theory Calculations. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 11341.	1.3	1
120	Anomalous ferromagnetism in manganites by finite block spin phenomenology. <i>Solid State Communications</i> , 2010, 150, 2178-2181.	0.9	0
121	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.	0.3	0
122	PU-Graphene Oxide Composite; Effect of Various Chain Extender on Properties. <i>Journal of Nanoscience and Nanotechnology</i> , 2017, 17, 2541-2544.	0.9	0
123	^4He adsorption on a single C_{40} molecule: Path integral Monte Carlo study. <i>Journal of the Korean Physical Society</i> , 2018, 72, 95-100.	0.3	0
124	Luminescence Quenching of a Novel Phosphorescent Ir(III) Complex/MWCNT Hybrid. <i>Bulletin of the Korean Chemical Society</i> , 2012, 33, 1367-1370.	1.0	0