

Hyun Park

List of Publications by Year in descending order

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85
papers

1,226
citations

331259

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454577

30
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86
all docs

86
docs citations

86
times ranked

1686
citing authors

#	ARTICLE	IF	CITATIONS
1	Direct Analysis of Trace Phenolics with a Microchip: In-Channel Sample Preconcentration, Separation, and Electrochemical Detection. <i>Analytical Chemistry</i> , 2006, 78, 6809-6817.	3.2	60
2	Microwave synthesis of nitrogen-doped carbon nanotubes anchored on graphene substrates. <i>Carbon</i> , 2015, 87, 186-192.	5.4	45
3	Effect of total acrylic/fluorinated acrylic monomer contents on the properties of waterborne polyurethane/acrylic hybrid emulsions. <i>Macromolecular Research</i> , 2013, 21, 709-718.	1.0	42
4	Life Cycle Assessment of Alternative Ship Fuels for Coastal Ferry Operating in Republic of Korea. <i>Journal of Marine Science and Engineering</i> , 2020, 8, 660.	1.2	41
5	Waterborne polysiloxane-urethane-urea for potential marine coatings. <i>Journal of Coatings Technology Research</i> , 2011, 8, 389-399.	1.2	40
6	Carbon nanofiber linked FeS ₂ mesoporous nano-alloys as high capacity anodes for lithium-ion batteries and supercapacitors. <i>Journal of Alloys and Compounds</i> , 2018, 732, 799-805.	2.8	40
7	Exploration of Lewis basicity and oxygen reduction reaction activity in plasma-tailored nitrogen-doped carbon electrocatalysts. <i>Catalysis Today</i> , 2019, 337, 102-109.	2.2	39
8	Synthesis and properties of UV-curable polyurethane acrylates containing fluorinated acrylic monomer/vinyltrimethoxysilane. <i>Polymer Bulletin</i> , 2015, 72, 1921-1936.	1.7	38
9	Graphene-carbon nanotube-Mn ₃ O ₄ mesoporous nano-alloys as high capacity anodes for lithium-ion batteries. <i>Journal of Alloys and Compounds</i> , 2017, 699, 106-111.	2.8	35
10	Carbon sheathed molybdenum nitride nanoparticles anchored on reduced graphene oxide as high-capacity sodium-ion battery anodes and supercapacitors. <i>New Journal of Chemistry</i> , 2018, 42, 5668-5673.	1.4	34
11	Polyurethane-based Actuators with Various Polyols. <i>Journal of Materials Science and Technology</i> , 2010, 26, 763-768.	5.6	32
12	Manganese nitride stabilized on reduced graphene oxide substrate for high performance sodium ion batteries, super-capacitors and EMI shielding. <i>Journal of Alloys and Compounds</i> , 2019, 808, 151748.	2.8	31
13	Adsorption mechanisms of lithium oxides (Li _x O ₂) on a graphene-based electrode: A density functional theory approach. <i>Applied Surface Science</i> , 2015, 351, 193-202.	3.1	30
14	Hydroquinone as a single precursor for concurrent reduction and growth of carbon nanotubes on graphene oxide. <i>RSC Advances</i> , 2015, 5, 68270-68275.	1.7	29
15	Preparation and properties of UV-curable fluorinated polyurethane acrylates. <i>Journal of Applied Polymer Science</i> , 2014, 131, .	1.3	28
16	Development and performance at high Reynolds number of a skin-friction reducing marine paint using polymer additives. <i>Ocean Engineering</i> , 2014, 84, 183-193.	1.9	27
17	Hollow SnO ₂ @carbon core-shell spheres stabilized on reduced graphene oxide for high-performance sodium-ion batteries. <i>New Journal of Chemistry</i> , 2017, 41, 442-446.	1.4	26
18	Redox reaction of benzoquinone on a lipid coated glassy carbon electrode. <i>Journal of Electroanalytical Chemistry</i> , 1997, 438, 113-119.	1.9	25

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19	Nitrogen doped holey carbon nano-sheets as anodes in sodium ion battery. RSC Advances, 2016, 6, 38112-38116.	1.7	25
20	Electrochemical and in situ UV-visible spectroscopic behavior of cytochrome c at a cardiolipin-modified electrode. Journal of Electroanalytical Chemistry, 2001, 514, 67-74.	1.9	24
21	Carbon encapsulated cobalt sulfide nano-particles anchored on reduced graphene oxide as high capacity anodes for sodium-ion batteries and glucose sensor. Journal of Alloys and Compounds, 2018, 764, 490-497.	2.8	23
22	Taguchi method for optimization of reaction conditions in microwave glycolysis of waste PET. Journal of Material Cycles and Waste Management, 2020, 22, 664-672.	1.6	23
23	Preparation and properties of waterborne polyurethane-silane: A promising antifouling coating. Macromolecular Research, 2011, 19, 8-13.	1.0	22
24	Hydrogen Evolution and Oxygen Reduction Reactions in Acidic Media Catalyzed by Pd ₄ S Decorated N/S Doped Carbon Derived from Pd Coordination Polymer. Small, 2021, 17, e2007511.	5.2	22
25	Microwave synthesis of three dimensional graphene-based shell-plate hybrid nanostructures. Carbon, 2013, 61, 633-639.	5.4	20
26	Kinetics of the Decay Reactions of the N,N-Dimethyl-p-Toluidine Cation Radical in Acetonitrile. Acid-Base Interaction to Promote the CH ₂ -CH ₂ Bonding. Journal of Physical Chemistry A, 2002, 106, 8103-8108.	1.1	19
27	Spectroscopic detection of short-lived anthracene derivative cation radicals using an electron transfer stopped-flow method with the tris(2,4-dibromophenyl)amine cation radical. Chemical Communications, 2002, , 604-605.	2.2	19
28	Versatile Yolk-Shell Encapsulation: Catalytic, Photothermal, and Sensing Demonstration. Small, 2020, 16, e2002311.	5.2	19
29	Novel hierarchically dispersed mesoporous silica spheres: effective adsorbents for mercury from wastewater and a thermodynamic study. New Journal of Chemistry, 2014, 38, 3899-3906.	1.4	18
30	Visible-to-UV triplet-triplet annihilation upconversion from a thermally activated delayed fluorescence/pyrene pair in an air-saturated solution. Korean Journal of Chemical Engineering, 2019, 36, 1791-1798.	1.2	17
31	Effects of chain extender in biodegradable polyurethane foams. Journal of Polymer Engineering, 2014, 34, 555-559.	0.6	16
32	Properties of waterborne polyurethane-fluorinated marine coatings: The effect of different types of diisocyanates and tetrafluorobutanediol chain extender content. Journal of Applied Polymer Science, 2014, 131, .	1.3	16
33	Cobalt Nanoparticles on Plasma-Controlled Nitrogen-Doped Carbon as High-Performance ORR Electrocatalyst for Primary Zn-Air Battery. Nanomaterials, 2020, 10, 223.	1.9	16
34	Environmental Life-Cycle Assessment of Eco-Friendly Alternative Ship Fuels (MGO, LNG, and Hydrogen) for 170 GT Nearshore Ferry. Journal of Marine Science and Engineering, 2022, 10, 755.	1.2	15
35	In-Situ ESR Detection of Radical Species of p-Benzoquinone in Aqueous Media. Electroanalysis, 2002, 14, 1501-1507.	1.5	14
36	Zeolitic imidazolate frameworks as novel precursors for microwave synthesis of carbon nanotubes. Journal of Alloys and Compounds, 2019, 781, 166-173.	2.8	13

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37	Catalytic activity of MnOx/TiO2 catalysts synthesized with different manganese precursors for the selective catalytic reduction of nitrogen oxides. <i>Reaction Kinetics, Mechanisms and Catalysis</i> , 2016, 117, 583-591.	0.8	12
38	Sugar-derived disordered carbon nano-sheets as high-performance electrodes in sodium-ion batteries. <i>New Journal of Chemistry</i> , 2017, 41, 4286-4290.	1.4	12
39	Transforming Waste Poly(Ethylene Terephthalate) into Nitrogen Doped Carbon Nanotubes and Its Utility in Oxygen Reduction Reaction and Bisphenol-A Removal from Contaminated Water. <i>Materials</i> , 2020, 13, 4144.	1.3	12
40	Blister Packing of Copper Hydroxide and Titania Nanoparticles on Graphene and Its Recycling. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 12323-12328.	4.0	11
41	Self-polishing behavior of zinc-based copolymer with different monomer composition. <i>Macromolecular Research</i> , 2014, 22, 978-982.	1.0	11
42	Decomposition mechanisms of self-polishing copolymers for antifouling coating materials through first-principles approach. <i>Progress in Organic Coatings</i> , 2020, 138, 105406.	1.9	11
43	Microwave induced transformation of metal organic frameworks into defect rich carbon nanofibers. <i>New Journal of Chemistry</i> , 2020, 44, 5666-5672.	1.4	10
44	Molecular M-N4 macrocycles in a nitrogen-carbon matrix as a highly durable oxygen reduction reaction (ORR) electrocatalysts in acid media. <i>Materials Letters</i> , 2021, 291, 129561.	1.3	10
45	Reduction of p-benzoquinone in the presence of phospholipid molecules in a lipophilic environment at the thin benzonitrile layer modified electrode. <i>Journal of Electroanalytical Chemistry</i> , 2002, 518, 27-32.	1.9	9
46	Experimental evidence and mechanism of the oxygen storage capacity in MnO2-Ce(1-x)ZrxO2/TiO2 catalyst for low-temperature SCR. <i>Ceramics International</i> , 2017, 43, 5182-5188.	2.3	9
47	Metal Organic Frameworks Derived Fe-N-C Nanostructures as High-Performance Electrodes for Sodium Ion Batteries and Electromagnetic Interference (EMI) Shielding. <i>Molecules</i> , 2021, 26, 1018.	1.7	9
48	Kinetics and mechanisms of the reactions of 9-substituted anthracene cation radicals with water or methanol in acetonitrile. <i>Journal of Electroanalytical Chemistry</i> , 2003, 558, 49-57.	1.9	7
49	Effect of current step-down on the growth and hardness of PEO coatings on Al6061 alloy. <i>Procedia Engineering</i> , 2011, 10, 2809-2814.	1.2	7
50	Experimental investigation on the drag reducing efficiency of the outer-layer vertical blades. <i>Journal of Marine Science and Technology</i> , 2011, 16, 390-401.	1.3	7
51	3D functional hetero-nanostructures of vertically anchored metal oxide nanowire arrays on porous graphene substrates. <i>Carbon</i> , 2014, 79, 330-336.	5.4	6
52	3D graphene-carbon nanotube-nickel ensembles as anodes in sodium-ion batteries. <i>RSC Advances</i> , 2016, 6, 99914-99918.	1.7	6
53	Synthesis and Characterization of Self-Polishing Copolymers Containing a New Zinc Acrylate Monomer. <i>Journal of Nanoscience and Nanotechnology</i> , 2016, 16, 10903-10907.	0.9	6
54	Extraction of Microfibrillar Cellulose From Waste Paper by NaOH/Urethane Aqueous System and Its Utility in Removal of Lead from Contaminated Water. <i>Materials</i> , 2020, 13, 2850.	1.3	6

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55	Metal Organic Framework Derived MnO ₂ -Carbon Nanotubes for Efficient Oxygen Reduction Reaction and Arsenic Removal from Contaminated Water. <i>Nanomaterials</i> , 2020, 10, 1895.	1.9	6
56	Vitamin Derived Nitrogen Doped Carbon Nanotubes for Efficient Oxygen Reduction Reaction and Arsenic Removal from Contaminated Water. <i>Materials</i> , 2020, 13, 1686.	1.3	6
57	Reduction of p-benzoquinone on lipid-modified electrodes: effect of the alkyl chain length of lipids on the electron transfer reactions. <i>Journal of Electroanalytical Chemistry</i> , 2000, 484, 131-136.	1.9	5
58	Remarkable 3-methyl substituent effects on the cyclization reaction of diphenylamine derivative cation radicals in acetonitrile. Electronic supplementary information (ESI) available: results of kinetic analysis for the reactions in Figs. 4 and 5. See http://www.rsc.org/suppdata/p2/b2/b201796b/ . <i>Perkin Transactions II RSC</i> , 2002, , 1335-1339.	1.1	5
59	Electrochemical and Electron Transfer Behavior of o-Chloranil with the Presence of Mg ²⁺ in Acetonitrile. <i>Electroanalysis</i> , 2002, 14, 1269-1274.	1.5	5
60	Amphiphilic Random Copolymers Consisting of Styrene, EGMA, and HEMA for Anti-Biofouling Coatings. <i>Molecular Crystals and Liquid Crystals</i> , 2015, 622, 151-157.	0.4	5
61	Metal-Organic Framework Reinforced Acrylic Polymer Marine Coatings. <i>Materials</i> , 2022, 15, 27.	1.3	5
62	Mesoporous silica-giant particle with slit pore arrangement as an adsorbent for heavy metal oxyanions from aqueous medium. <i>RSC Advances</i> , 2015, 5, 10260-10266.	1.7	4
63	Performance Improvement of Acid Pretreated 3D Printing Composite for the Heavy Metal Ions Analysis. <i>Electroanalysis</i> , 2021, 33, 1707-1714.	1.5	4
64	Competitive electrochemical deposition of barium salts of chloranil analogous anion radicals. Correlation with reactivity in homogeneous solution. <i>Journal of Electroanalytical Chemistry</i> , 2002, 523, 79-85.	1.9	3
65	Properties of waterborne polyurethane (WBPU) coatings: Effect of alkyl chain length of tertiary amines of carboxylic acid salt groups. <i>Fibers and Polymers</i> , 2013, 14, 886-894.	1.1	3
66	Evaluation of Water Hammer for Seawater Treatment System in Offshore Floating Production Unit. <i>Processes</i> , 2020, 8, 1041.	1.3	3
67	Evaluation of in-service speed performance improvement by means of FDR-AF (frictional drag reducing) Tj ETQq1 1 0.784314 ₃ rgBT /Ov 1.6	1.6	3
68	Numerical simulation of wave interacting with a free rolling body. <i>International Journal of Naval Architecture and Ocean Engineering</i> , 2013, 5, 333-347.	1.0	3
69	Permeability of a Zinc-Methacrylate-Based Self-Polishing Copolymer for Use in Antifouling Coating Materials by Molecular Dynamics Simulations. <i>Nanomaterials</i> , 2021, 11, 3141.	1.9	3
70	The effect of ball milling on the ph of Mg-based metals, oxides and Zn in aqueous media. <i>Metals and Materials International</i> , 2010, 16, 253-258.	1.8	2
71	Powder Characteristics and Biocidal Activity of the MnO _x -WO ₃ -TiO ₂ System Synthesized by a Sol-Gel Method for Antifouling Agents. <i>Bulletin of Environmental Contamination and Toxicology</i> , 2013, 91, 208-212.	1.3	2
72	Micellar core-shell-type acrylic-polyurethane hybrid materials with self-polishing property. <i>Composite Interfaces</i> , 2016, 23, 797-805.	1.3	2

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73	Synthesis and Characterization of Self-Polishing Polyurethane Copolymers. Journal of Nanoscience and Nanotechnology, 2019, 19, 6554-6558.	0.9	2
74	DABCO Derived Nitrogen-Doped Carbon Nanotubes for Oxygen Reduction Reaction (ORR) and Removal of Hexavalent Chromium from Contaminated Water. Materials, 2021, 14, 2871.	1.3	2
75	Degradation Behavior of TiN Coatings with Different Thicknesses after a Pulsed Laser Thermal Shock Test. Journal of Korean Institute of Metals and Materials, 2013, 51, 729-734.	0.4	2
76	Catalytic Activity and Surface Characteristics of WO ₃ -doped MnO _x -TiO ₂ Catalysts for Low-temperature Selective Catalytic Reduction of NO _x with NH ₃ . Journal of Korean Institute of Metals and Materials, 2016, 54, 787-792.	0.4	2
77	Coordination Polymer Framework-Derived Ni-N-Doped Carbon Nanotubes for Electro-Oxidation of Urea. Materials, 2022, 15, 2048.	1.3	2
78	Properties of Waterborne Polyurethane/CNT Nanocomposite Adhesives: Effect of Counterions. Journal of Adhesion Science and Technology, 2011, 25, 1073-1086.	1.4	1
79	THE EFFECT OF CARBON FILLER TYPE ON ACTUATION BEHAVIOR OF CONDUCTING POLYMER ACTUATOR. Functional Materials Letters, 2011, 04, 75-78.	0.7	1
80	Anti-Biofouling Effect of PEG-Grafted Block Copolymer Synthesized by RAFT Polymerization. Journal of Nanoscience and Nanotechnology, 2015, 15, 7866-7870.	0.9	1
81	The pH effect for rare earth metals Nd, Pr and Y in aqueous solution dissolved Mg, Zn and Al. Metals and Materials International, 2010, 16, 833-836.	1.8	0
82	The Effect of Hydrophilic Components of Zinc Based Copolymer on its Self Polishing Behavior. Applied Mechanics and Materials, 2012, 217-219, 652-655.	0.2	0
83	Time Resolved PIV Investigation on the Skin Friction Reduction Mechanism of Outer-Layer Vertical Blades Array. Advances in Mechanical Engineering, 2015, 7, 901421.	0.8	0
84	Synthesis of Novel Polyacrylates Containing Cyclotetrasiloxane for Fouling-Release Coating Applications. Journal of Nanoscience and Nanotechnology, 2019, 19, 4686-4690.	0.9	0
85	Antifouling Paint Resin Based on Polyurethane Matrix with Quaternary Ammonium Salt. Porrima, 2015, 39, 122-129.	0.0	0