

Jung Tae Park

List of Publications by Year in descending order

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83
papers

1,813
citations

279798

23
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302126

39
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85
all docs

85
docs citations

85
times ranked

2374
citing authors

#	ARTICLE	IF	CITATIONS
1	Surfactant-free one-pot synthesis of Au-TiO ₂ core-shell nanostars by inter-cation redox reaction for photoelectrochemical water splitting. <i>Energy Conversion and Management</i> , 2022, 252, 115038.	9.2	16
2	Sensitive and Homogeneous Surface-Enhanced Raman Scattering Detection Using Heterometallic Interfaces on Metal-Organic Framework-Derived Structure. <i>Advanced Materials Interfaces</i> , 2022, 9, .	3.7	6
3	Sensitive and Homogeneous Surface-Enhanced Raman Scattering Detection Using Heterometallic Interfaces on Metal-Organic Framework-Derived Structure (<i>Adv. Mater. Interfaces</i> 7/2022). <i>Advanced Materials Interfaces</i> , 2022, 9, .	3.7	0
4	Quasi-Solid-State SiO ₂ Electrolyte Prepared from Raw Fly Ash for Enhanced Solar Energy Conversion. <i>Materials</i> , 2022, 15, 3576.	2.9	1
5	Synthesis of binary metal-metal oxide core-shell nanoparticles via surfactant-free intercation redox reactions. <i>Bulletin of the Korean Chemical Society</i> , 2022, 43, 1002-1006.	1.9	5
6	Direct growth of highly organized, 2D ultra-thin nano-accordion Ni-MOF@NiS ₂ @C core-shell for high performance energy storage device. <i>Chemical Engineering Journal</i> , 2021, 406, 126810.	12.7	45
7	Surface-controlled galvanic replacement for the development of Pt-Ag nanoplates with concave surface substructures. <i>Chemical Engineering Journal</i> , 2021, 417, 128026.	12.7	10
8	1D Co ₄ S ₃ nanoneedle array with mesoporous carbon derived from double comb copolymer as an efficient solar conversion catalyst. <i>Applied Surface Science</i> , 2021, 535, 147637.	6.1	14
9	Shape-Controlled TiO ₂ Nanomaterials-Based Hybrid Solid-State Electrolytes for Solar Energy Conversion with a Mesoporous Carbon Electrocatalyst. <i>Nanomaterials</i> , 2021, 11, 913.	4.1	7
10	One-dimensional SnO ₂ nanotube solid-state electrolyte for fast electron transport and high light harvesting in solar energy conversion. <i>Solid State Ionics</i> , 2021, 363, 115584.	2.7	4
11	High-voltage solar energy conversion based on ZIF-67-derived binary redox-quasi-solid-state electrolyte. <i>Journal of Electroanalytical Chemistry</i> , 2021, 893, 115264.	3.8	5
12	Tailored ZnO Nanostructure Based Quasi-Solid-State Electrolyte and Mesoporous Carbon Electrocatalyst for Solar Energy Conversion. <i>ECS Journal of Solid State Science and Technology</i> , 2021, 10, 085005.	1.8	2
13	Preparation of Co ₉ S ₈ nanostructure with double comb copolymer derived mesoporous carbon for solar energy conversion catalyst. <i>Journal of Electroanalytical Chemistry</i> , 2021, 895, 115384.	3.8	4
14	Ultrathin, Highly Permeable Graphene Oxide/Zeolitic Imidazole Framework Polymeric Mixed-Matrix Composite Membranes: Engineering the CO ₂ -Philic Pathway. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 11903-11915.	6.7	11
15	Reliability-Based Robust Design Optimization of Lithium-Ion Battery Cells for Maximizing the Energy Density by Increasing Reliability and Robustness. <i>Energies</i> , 2021, 14, 6236.	3.1	8
16	A highly efficient nanofibrous air filter membrane fabricated using electrospun amphiphilic PVDF-g-POEM double comb copolymer. <i>Separation and Purification Technology</i> , 2021, 279, 119625.	7.9	11
17	Designing double comb copolymer as highly lithium ionic conductive solid-state electrolyte membranes. <i>Reactive and Functional Polymers</i> , 2021, 169, 105093.	4.1	3
18	Impregnation approach for poly(vinylidene fluoride)/tin oxide nanotube composites with high tribological performance. <i>Journal of Materials Science and Technology</i> , 2020, 37, 19-25.	10.7	5

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19	Ni, Co-double hydroxide wire structures with controllable voids for electrodes of energy-storage devices. <i>Journal of Materials Science and Technology</i> , 2020, 55, 126-135.	10.7	14
20	Mixed matrix membranes consisting of ZIF-8 in rubbery amphiphilic copolymer: Simultaneous improvement in permeability and selectivity. <i>Chemical Engineering Research and Design</i> , 2020, 153, 175-186.	5.6	11
21	Synthesis of hierarchical flower-shaped hollow MgO microspheres via ethylene-glycol-mediated process as a base heterogeneous catalyst for transesterification for biodiesel production. <i>Biomass and Bioenergy</i> , 2020, 142, 105788.	5.7	26
22	High-order diffraction grating as light harvesters for solar energy conversion. <i>Journal of Electroanalytical Chemistry</i> , 2020, 873, 114490.	3.8	5
23	Harnessing SnO ₂ nanotube light scattering cluster to improve energy conversion efficiency assisted by high reflectance. <i>Materials Chemistry and Physics</i> , 2020, 254, 123538.	4.0	11
24	Imidazole-functionalized hydrophilic rubbery comb copolymers: Microphase-separation and good gas separation properties. <i>Separation and Purification Technology</i> , 2020, 242, 116780.	7.9	12
25	Environmental friendly synthesis of hierarchical mesoporous platinum nanoparticles templated by fucoidan biopolymer for enhanced hydrogen evolution reaction. <i>Journal of Materials Science and Technology</i> , 2020, 46, 185-190.	10.7	8
26	Highly Interconnected Nanorods and Nanosheets Based on a Hierarchically Layered Metal-Organic Framework for a Flexible, High-Performance Energy Storage Device. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 3773-3785.	6.7	35
27	Facile graft copolymer template synthesis of mesoporous polymeric metal-organic frameworks to produce mesoporous TiO ₂ : Promising platforms for photovoltaic and photocatalytic applications. <i>Journal of Industrial and Engineering Chemistry</i> , 2020, 84, 384-392.	5.8	17
28	Surface Carbon Shell-Functionalized ZrO ₂ as Nanofiller in Polymer Gel Electrolyte-Based Dye-Sensitized Solar Cells. <i>Nanomaterials</i> , 2019, 9, 1418.	4.1	18
29	Synthesis of Ag ₂ O decorated hierarchical TiO ₂ templated by double comb copolymers for efficient solar water splitting. <i>Chemical Communications</i> , 2019, 55, 11013-11016.	4.1	12
30	Synthesis, structure and gas separation properties of ethanol-soluble, amphiphilic POM-PBHP comb copolymers. <i>Polymer</i> , 2019, 180, 121700.	3.8	5
31	Solid-State Solar Energy Conversion from WO ₃ Nano and Microstructures with Charge Transportation and Light-Scattering Characteristics. <i>Nanomaterials</i> , 2019, 9, 1797.	4.1	13
32	Preparation of quasi-solid-state electrolytes using a coal fly ash derived zeolite-X and -A for dye-sensitized solar cells. <i>Journal of Industrial and Engineering Chemistry</i> , 2019, 71, 378-386.	5.8	25
33	Semi-interpenetrating polymer network membranes based on a self-crosslinkable comb copolymer for CO ₂ capture. <i>Chemical Engineering Journal</i> , 2019, 360, 1468-1476.	12.7	40
34	Transition-metal-based layered double hydroxides tailored for energy conversion and storage. <i>Journal of Materials Chemistry A</i> , 2018, 6, 12-29.	10.3	170
35	Ultrafiltration membranes based on hybrids of an amphiphilic graft copolymer and titanium isopropoxide. <i>Journal of Applied Polymer Science</i> , 2018, 135, 45932.	2.6	5
36	Facilitated olefin transport through membranes consisting of partially polarized silver nanoparticles and PEMA-g-PPG graft copolymer. <i>Journal of Membrane Science</i> , 2018, 548, 149-156.	8.2	19

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37	Highly catalytic and reflective dual-phase nickel sulfide electrodes for solar energy conversion. <i>Applied Surface Science</i> , 2018, 457, 1151-1157.	6.1	21
38	Fogging, reflection, and dust-free transparent conducting glasses based on superhydrophilic nanotextures for organic photovoltaics. <i>Journal of Industrial and Engineering Chemistry</i> , 2017, 52, 243-250.	5.8	4
39	Preparation of TiO ₂ /Ag binary nanocomposite as high-activity visible-light-driven photocatalyst via graft polymerization. <i>Chemical Physics Letters</i> , 2017, 685, 119-126.	2.6	15
40	SnO ₂ hollow nanotubes: a novel and efficient support matrix for enzyme immobilization. <i>Scientific Reports</i> , 2017, 7, 15333.	3.3	61
41	Synthesis of organized mesoporous metal oxide films templated by amphiphilic PVA-PMMA comb copolymer. <i>RSC Advances</i> , 2016, 6, 67849-67857.	3.6	8
42	Synthesis and application of PEGBEM-g-POEM graft copolymer electrolytes for dye-sensitized solar cells. <i>Solid State Ionics</i> , 2016, 290, 24-30.	2.7	15
43	Well-organized mesoporous TiO ₂ film with high porosity made using alcohol-assisted EC-g-PMMA graft copolymer. <i>Macromolecular Research</i> , 2016, 24, 573-576.	2.4	4
44	Structural color-tunable mesoporous Bragg stack layers based on graft copolymer self-assembly for high-efficiency solid-state dye-sensitized solar cells. <i>Journal of Power Sources</i> , 2016, 324, 637-645.	7.8	13
45	High performance electrocatalyst consisting of CoS nanoparticles on an organized mesoporous SnO ₂ film: its use as a counter electrode for Pt-free, dye-sensitized solar cells. <i>Nanoscale</i> , 2015, 7, 670-678.	5.6	55
46	Multifunctional Organized Mesoporous Tin Oxide Films Templated by Graft Copolymers for Dye-Sensitized Solar Cells. <i>ChemSusChem</i> , 2014, 7, 1767-1767.	6.8	0
47	One-pot synthesis of hierarchical mesoporous SnO ₂ spheres using a graft copolymer: enhanced photovoltaic and photocatalytic performance. <i>RSC Advances</i> , 2014, 4, 31452-31461.	3.6	21
48	Multifunctional all-TiO ₂ Bragg stacks based on blocking layer-assisted spin coating. <i>Journal of Materials Chemistry C</i> , 2014, 2, 3260-3269.	5.5	10
49	Improved electron transfer and plasmonic effect in dye-sensitized solar cells with bi-functional Nb-doped TiO ₂ /Ag ternary nanostructures. <i>Nanoscale</i> , 2014, 6, 2718-2729.	5.6	34
50	Excellent anti-fogging dye-sensitized solar cells based on superhydrophilic nanoparticle coatings. <i>Nanoscale</i> , 2014, 6, 7362-7368.	5.6	53
51	Multifunctional Organized Mesoporous Tin Oxide Films Templated by Graft Copolymers for Dye-Sensitized Solar Cells. <i>ChemSusChem</i> , 2014, 7, 2037-2047.	6.8	18
52	One-step Fabrication of Crack-free, Hierarchically-ordered TiO ₂ Films via Self-assembly of Polystyrene Bead and Preformed TiO ₂ . <i>Electrochimica Acta</i> , 2014, 117, 521-527.	5.2	2
53	Mesoporous TiO ₂ Bragg Stack Templated by Graft Copolymer for Dye-sensitized Solar Cells. <i>Scientific Reports</i> , 2014, 4, 5505.	3.3	24
54	Hybrid Templated Synthesis of Crack-free, Organized Mesoporous TiO ₂ Electrodes for High Efficiency Solid-state Dye-Sensitized Solar Cells. <i>Advanced Functional Materials</i> , 2013, 23, 26-33.	14.9	45

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55	All-solid, flexible solar textiles based on dye-sensitized solar cells with ZnO nanorod arrays on stainless steel wires. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2013, 178, 1117-1123.	3.5	30
56	Bragg Stackâ€Functionalized Counter Electrode for Solidâ€State Dyeâ€Sensitized Solar Cells. <i>ChemSusChem</i> , 2013, 6, 856-864.	6.8	19
57	Enhancing the Performance of Solidâ€State Dyeâ€Sensitized Solar Cells Using a Mesoporous Interfacial Titania Layer with a Bragg Stack. <i>Advanced Functional Materials</i> , 2013, 23, 2193-2200.	14.9	30
58	Facile fabrication of vertically aligned TiO ₂ nanorods with high density and rutile/anatase phases on transparent conducting glasses: high efficiency dye-sensitized solar cells. <i>Journal of Materials Chemistry</i> , 2012, 22, 6131.	6.7	55
59	Direct Assembly of Preformed Nanoparticles and Graft Copolymer for the Fabrication of Micrometerâ€thick, Organized TiO ₂ Films: High Efficiency Solidâ€State Dyeâ€Sensitized Solar Cells. <i>Advanced Materials</i> , 2012, 24, 519-522.	21.0	83
60	Hierarchical TiO ₂ spheres architectures for quasi solid state dye-sensitized solar cells by living radical polymerization and sol-gel process. , 2011, , .		0
61	Formation of mesoporous TiO ₂ with large surface areas, interconnectivity and hierarchical pores for dye-sensitized solar cells. <i>Journal of Materials Chemistry</i> , 2011, 21, 17872.	6.7	25
62	Polymer Electrolytes Based on Grafted Inorganic Nanoparticles for Dye-Sensitized Solar Cells. <i>Journal of Nanoscience and Nanotechnology</i> , 2011, 11, 1718-1721.	0.9	3
63	Nanocomposite membranes consisting of poly(vinyl chloride) graft copolymer and surface-modified silica nanoparticles. <i>Macromolecular Research</i> , 2011, 19, 1195-1201.	2.4	18
64	Use of block copolymer as compatibilizer in polyimide/zeolite composite membranes. <i>Polymers for Advanced Technologies</i> , 2011, 22, 768-772.	3.2	21
65	Synthesis and characterization of TiO ₂ /Ag/polymer ternary nanoparticles via surface-initiated atom transfer radical polymerization. <i>Applied Surface Science</i> , 2011, 257, 8301-8306.	6.1	20
66	Nanostructural TiO ₂ films with high surface areas and controllable pore sizes for high performance dye-sensitized solar cells. , 2011, , .		0
67	Surface modification of silica nanoparticles with hydrophilic polymers. <i>Journal of Industrial and Engineering Chemistry</i> , 2010, 16, 517-522.	5.8	106
68	Amphiphilic poly(vinyl chloride)-g-poly(oxyethylene methacrylate) graft polymer electrolytes: Interactions, nanostructures and applications to dye-sensitized solar cells. <i>Electrochimica Acta</i> , 2010, 55, 4976-4981.	5.2	55
69	Preparation of TiO ₂ spheres with hierarchical pores via grafting polymerization and solâ€gel process for dye-sensitized solar cells. <i>Journal of Materials Chemistry</i> , 2010, 20, 8521.	6.7	91
70	Surface-initiated atom transfer radical polymerization from TiO ₂ nanoparticles. <i>Applied Surface Science</i> , 2009, 255, 3739-3744.	6.1	52
71	Graft polymerization of poly(epichlorohydrin-g-poly((oxyethylene) methacrylate)) using ATRP and its polymer electrolyte with KI. <i>Ionics</i> , 2009, 15, 163-167.	2.4	13
72	Proton-conducting composite membranes from graft copolymer electrolytes and phosphotungstic acid for fuel cells. <i>Ionics</i> , 2009, 15, 439-444.	2.4	9

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73	Templated formation of silver nanoparticles using amphiphilic poly(epichlorohydrine-g-styrene) film. <i>Macromolecular Research</i> , 2009, 17, 301-306.	2.4	6
74	Synthesis of crosslinked polystyrene-b-poly(hydroxyethyl methacrylate)-b-poly(styrene sulfonic acid) triblock copolymer for electrolyte membranes. <i>Macromolecular Research</i> , 2009, 17, 325-331.	2.4	14
75	Composite polymer electrolyte membranes comprising P(VDF-co-CTFE)-g-PSSA graft copolymer and zeolite for fuel cell applications. <i>Polymers for Advanced Technologies</i> , 2009, 20, 1146-1151.	3.2	17
76	Prediction of the glass transition temperature of semicrystalline polymer/salt complexes. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2009, 47, 793-798.	2.1	1
77	Proton conducting crosslinked membranes by polymer blending of triblock copolymer and poly(vinyl) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 507 Td (fluoride-co-chloride) <i>Polymers for Advanced Technologies</i> , 2008, 19, 1643-1648.	2.4	22
78	Synthesis of amphiphilic graft copolymer brush and its use as template film for the preparation of silver nanoparticles. <i>Journal of Polymer Science Part A</i> , 2008, 46, 3911-3918.	2.3	27
79	Templated synthesis of silver nanoparticles in amphiphilic poly(vinylidene) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 507 Td (fluoride-co-chloride) <i>Polymer Physics</i> , 2008, 46, 702-709.	2.1	27
80	Molecular thermodynamic model of the glass transition temperature: dependence on molecular weight. <i>Polymers for Advanced Technologies</i> , 2008, 19, 944-946.	3.2	8
81	Nanofiltration membranes based on poly(vinylidene) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 427 Td (fluoride-co-chloride) <i>Polymers for Advanced Technologies</i> , 2008, 19, 1643-1648.	3.2	14
82	Formation of silver nanoparticles created <i>in situ</i> in an amphiphilic block copolymer film. <i>Journal of Applied Polymer Science</i> , 2008, 110, 2352-2357.	2.6	11
83	Nanocomposite polymer electrolytes containing silica nanoparticles: Comparison between poly(ethylene glycol) and poly(ethylene oxide) dimethyl ether. <i>Journal of Applied Polymer Science</i> , 2007, 106, 4083-4090.	2.6	23