

Young Gun Ko

List of Publications by Year in descending order

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Version: 2024-02-01

70
papers

1,450
citations

394421

19
h-index

361022

35
g-index

72
all docs

72
docs citations

72
times ranked

1971
citing authors

#	ARTICLE	IF	CITATIONS
1	Designing large-sized and spherical CO ₂ adsorbents for highly reversible CO ₂ capture and low pressure drop. <i>Chemical Engineering Journal</i> , 2022, 427, 131781.	12.7	8
2	Reusable selective sensing-substrate for ultrasensitive and rapid detection of uranium radioisotopes. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 105983.	6.7	0
3	Securely anchored Prussian blue nanocrystals on the surface of porous PAAm sphere for high and selective cesium removal. <i>Journal of Hazardous Materials</i> , 2021, 420, 126654.	12.4	25
4	Designing particle size of aminated polyacrylonitrile spheres to enhance electrorheological performances of their suspensions. <i>Powder Technology</i> , 2021, 394, 986-995.	4.2	8
5	Nanofibrous spherical cage mimicking a ball of pearl necklaces for super capture of heavy metal ions. <i>Journal of Materials Chemistry A</i> , 2021, 9, 17281-17291.	10.3	8
6	Preparation and characterization of electrodeposited layers as alpha sources for alpha-particle spectrometry. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2020, 326, 861-877.	1.5	8
7	Rotation of charged polymer particles for potential applications in micro-propulsion systems. <i>Journal of Materials Chemistry C</i> , 2020, 8, 16339-16348.	5.5	0
8	Formation of oriented fishbone-like pores in biodegradable polymer scaffolds using directional phase-separation processing. <i>Scientific Reports</i> , 2020, 10, 14472.	3.3	10
9	Highly Durable and Thermally Conductive Shell-Coated Phase-Change Capsule as a Thermal Energy Battery. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 5759-5766.	8.0	15
10	Spent coffee grounds: Massively supplied carbohydrate polymer applicable to electrorheology. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2019, 562, 392-401.	4.7	14
11	Core/shell hybrid fiber with aminated PAN and Fe ₂ O ₃ as a high-capacity adsorbent for phosphate ions. <i>Journal of Hazardous Materials</i> , 2019, 378, 120726.	12.4	30
12	Electrorheological properties of algae dispersed suspension: New application of harmful algae. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2018, 539, 354-363.	4.7	9
13	Switchable electrorheological activity of polyacrylonitrile microspheres by thermal treatment: from negative to positive. <i>Soft Matter</i> , 2018, 14, 8912-8923.	2.7	6
14	Preparation of PLLA/PBAT-strengthened degradable expanded polystyrene. <i>Polymer Engineering and Science</i> , 2017, 57, 883-890.	3.1	3
15	Combustion/absorption process for the separation of ¹⁴ C and ³ H in radwastes released from nuclear power plants and their analysis. <i>Journal of Hazardous Materials</i> , 2017, 331, 13-20.	12.4	11
16	Influence of amine- and sulfonate-functional groups on electrorheological behavior of polyacrylonitrile dispersed suspension. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2017, 514, 56-62.	4.7	12
17	Design of negative electrorheological materials inspired by electrophoretic separation of biomolecules. <i>Journal of Materials Chemistry C</i> , 2017, 5, 11683-11693.	5.5	7
18	Sequential separation method for the determination of uranium and thorium in soil using diamyl amylphosphonate and Aliquat®336 impregnated polymer resins. <i>Reactive and Functional Polymers</i> , 2016, 106, 43-50.	4.1	9

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19	CeO ₂ -covered nanofiber for highly efficient removal of phosphorus from aqueous solution. <i>Journal of Hazardous Materials</i> , 2016, 307, 91-98.	12.4	56
20	Encapsulation of Phase Change Material with Water-Absorbable Shell for Thermal Energy Storage. <i>ACS Sustainable Chemistry and Engineering</i> , 2015, 3, 2874-2881.	6.7	66
21	Characterizations of electrodeposited uranium layer on stainless steel disc. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2015, 487, 121-130.	4.7	8
22	Line-patterning of polyaniline coated MWCNT on stepped substrates using DC electric field. <i>Scientific Reports</i> , 2014, 4, 6656.	3.3	9
23	Hierarchically Porous Aminosilica Monolith as a CO ₂ Adsorbent. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 12988-12996.	8.0	42
24	Diverse applications of fibers surface-functionalized with nano- and microparticles. <i>Composites Science and Technology</i> , 2013, 79, 77-86.	7.8	6
25	Positive and Negative Electrorheological Response of Alginate Salts Dispersed Suspensions under Electric Field. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 1122-1130.	8.0	22
26	Smart glass substrate as colorimetric chemosensor for highly selective detection of silver ion. <i>Sensors and Actuators B: Chemical</i> , 2013, 177, 1107-1114.	7.8	8
27	Negative electrorheological fluids. <i>Journal of Rheology</i> , 2013, 57, 1655-1667.	2.6	12
28	Cu ²⁺ sequestration by amine-functionalized silica nanotubes. <i>Journal of Hazardous Materials</i> , 2013, 260, 489-497.	12.4	13
29	The mixing effect of amine and carboxyl groups on electrorheological properties and its analysis by in situ FT-IR under an electric field. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 16527.	2.8	7
30	Amines immobilized double-walled silica nanotubes for CO ₂ capture. <i>Journal of Hazardous Materials</i> , 2013, 250-251, 53-60.	12.4	53
31	Gelation of natural polymer dispersed suspensions under electric field. <i>Soft Matter</i> , 2012, 8, 253-259.	2.7	18
32	Growth of oriented p-aminobenzoic acid crystals by directional freezing. <i>CrystEngComm</i> , 2012, 14, 7891.	2.6	6
33	Dipolar-molecule complexed chitosan carboxylate, phosphate, and sulphate dispersed electrorheological suspensions. <i>Soft Matter</i> , 2012, 8, 6273.	2.7	18
34	Characterization of Surface Properties and Cytocompatibility of Ion-etched Chitosan Films. <i>Langmuir</i> , 2012, 28, 7223-7232.	3.5	11
35	Gelation of Chitin and Chitosan Dispersed Suspensions under Electric Field: Effect of Degree of Deacetylation. <i>ACS Applied Materials & Interfaces</i> , 2011, 3, 1289-1298.	8.0	42
36	Removal of Cu(II) and Cr(VI) ions from aqueous solution using chelating fiber packed column: Equilibrium and kinetic studies. <i>Journal of Hazardous Materials</i> , 2011, 194, 92-99.	12.4	39

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37	Fabrication of colloidal crystals on hydrophilic/hydrophobic surface by spin-coating. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2011, 385, 188-194.	4.7	21
38	Synthesis, Thermal-Induced Phase Separation, and Solvent-Induced Switching Behavior of Novel Ionic Polymer Based on Sulfonated Poly(Ethylene-Vinyl Alcohol) for Li Ion Recovery. Macromolecular Chemistry and Physics, 2011, 212, 1443-1450.	2.2	1
39	Primary, secondary, and tertiary amines for CO ₂ capture: Designing for mesoporous CO ₂ adsorbents. Journal of Colloid and Interface Science, 2011, 361, 594-602.	9.4	214
40	Effect of pH on Cu(II) crystal growth onto the surface of chelating fiber. Applied Physics Letters, 2011, 99, 094102.	3.3	1
41	MODEL STUDY FOR SHEAR BEHAVIOR OF BENZENE RING OR TRIAZINE GROUP IMMOBILIZED CHITOSAN DISPERSED SUSPENSION AS ER FLUIDS. , 2011, , .		0
42	INFLUENCE OF ALKYL CHAIN LENGTH ON CARBOXYL-GROUP-IMMOBILIZED HOLLOW POLYANILINE SPHERES DISPERSED SUSPENSION UNDER AN ELECTRIC FIELD. , 2011, , .		0
43	Molecular interaction mechanism in solid polymer electrolyte comprising cellulose phthalate and LiClO ₄ . Solid State Ionics, 2010, 181, 1178-1182.	2.7	13
44	Influence of metal ion on electrorheological properties of carboxyl-group-immobilized chitosan dispersed suspension under electric field. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2010, 371, 76-80.	4.7	12
45	Surface-grafting of phosphates onto a polymer for potential biomimetic functionalization of biomaterials. Journal of Colloid and Interface Science, 2009, 330, 77-83.	9.4	27
46	Influence of particle size on shear behavior of amine-group-immobilized polyacrylonitrile dispersed suspension under electric field. Journal of Colloid and Interface Science, 2009, 335, 183-188.	9.4	19
47	Trembling Shear Behavior of a Modified-Chitosan Dispersed Suspension under an Electric Field and its Model Study. Macromolecular Chemistry and Physics, 2008, 209, 890-899.	2.2	19
48	Optimization of Scaffold for a Successful Hydrogel-Seeding Method for Vascular Tissue Engineering. Key Engineering Materials, 2007, 342-343, 333-336.	0.4	3
49	Characterization of the Gel-Spun Tubular Scaffold for Cardiovascular Tissue Engineering. Key Engineering Materials, 2007, 342-343, 321-324.	0.4	0
50	Effects of Liquid Bridge between Colloidal Spheres and Evaporation Temperature on Fabrication of Colloidal Multilayers. Journal of Physical Chemistry B, 2007, 111, 1545-1551.	2.6	36
51	Novel synthesis and electrorheological properties of monodispersed submicron-sized hollow polyaniline dicarboxylate salt form suspensions. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2007, 292, 217-223.	4.7	15
52	Electrorheological properties of aminated chitosans. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2007, 305, 120-125.	4.7	12
53	Adsorption and equilibrium adsorption modeling of bivalent metal cations on viscose rayon succinate at different pHs. Reactive and Functional Polymers, 2007, 67, 312-321.	4.1	8
54	Observation of metal ions adsorption on novel polymeric chelating fiber and activated carbon fiber. Separation and Purification Technology, 2007, 57, 338-347.	7.9	17

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55	Bowing Effect with Fluorescence: A Unique Chemosensor for the Silver Ion. <i>Industrial & Engineering Chemistry Research</i> , 2006, 45, 656-662.	3.7	7
56	Confirmation of heavy metal ions in used lubricating oil from a passenger car using chelating self-assembled monolayer. <i>Journal of Colloid and Interface Science</i> , 2006, 301, 27-31.	9.4	4
57	Electrorheological properties of chemically modified chitosan suspension with various functional pendants. <i>Journal of Applied Polymer Science</i> , 2006, 102, 4937-4942.	2.6	9
58	Pinecone-like Cu(II) crystal growth on the surface of amine-group-immobilized polymers. <i>Journal of Polymer Science Part A</i> , 2005, 43, 1238-1247.	2.3	5
59	Synthesis and characteristics of novel chelate fiber containing amine and amidine groups. <i>Polymers for Advanced Technologies</i> , 2004, 15, 459-466.	3.2	21
60	Equilibrium adsorption model of anions onto a novel synthesized chelating fiber under various pHs and Fourier transform infrared study of these adsorptions. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2004, 42, 2430-2440.	2.1	2
61	Fourier transform infrared spectroscopy study of the effect of pH on anion and cation adsorption onto poly(acrylo-amidino diethylenediamine). <i>Journal of Polymer Science Part A</i> , 2004, 42, 2010-2018.	2.3	26
62	Chemical structure designing to enhance the yield stress of electrorheological fluids based on modified chitosan compounds. <i>Journal of Applied Polymer Science</i> , 2004, 93, 1559-1566.	2.6	17
63	Cu Crystal Growth on a Chelating Fiber with Different Amine Chain Lengths. <i>Macromolecular Rapid Communications</i> , 2004, 25, 1324-1329.	3.9	9
64	Design of High Efficiency Chelate Fibers with an Amine Group To Remove Heavy Metal Ions and pH-Related FT-IR Analysis. <i>Industrial & Engineering Chemistry Research</i> , 2004, 43, 2060-2066.	3.7	65
65	FT-IR and Isotherm Study on Anion Adsorption onto Novel Chelating Fibers. <i>Macromolecular Rapid Communications</i> , 2002, 23, 535.	3.9	52
66	Novel synthesis and characterization of activated carbon fiber and dye adsorption modeling. <i>Carbon</i> , 2002, 40, 2661-2672.	10.3	37
67	Immobilization of poly(ethylene glycol) or its sulfonate onto polymer surfaces by ozone oxidation. <i>Biomaterials</i> , 2001, 22, 2115-2123.	11.4	132
68	Physicochemical and thermal studies of viscose rayon borate fiber and its carbon fiber. <i>Journal of Polymer Science Part A</i> , 2001, 39, 3875-3883.	2.3	3
69	Electrorheological Performance of Chitosan Phosphate Suspension. <i>Polymer Journal</i> , 2000, 32, 501-504.	2.7	15
70	Study on syntheses of phosphates and transition-metal complexes on viscose rayon felt for flame retardancy. <i>Journal of Polymer Science Part A</i> , 2000, 38, 2815-2823.	2.3	8