

Guo-Zhong Wu

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195
papers

4,271
citations

33
h-index

53
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201
ext. papers

4,838
ext. citations

4.6
avg, IF

5.54
L-index

#	Paper	IF	Citations
195	Transition of ionic liquid [bmim][PF6] from liquid to high-melting-point crystal when confined in multiwalled carbon nanotubes. <i>Journal of the American Chemical Society</i> , 2007 , 129, 2416-7	16.4	211
194	Preparation of high antimicrobial activity thiourea chitosan-Ag ⁺ complex. <i>Carbohydrate Polymers</i> , 2005 , 60, 33-38	10.3	165
193	Preparation of high-stable silver nanoparticle dispersion by using sodium alginate as a stabilizer under gamma radiation. <i>Radiation Physics and Chemistry</i> , 2009 , 78, 251-255	2.5	150
192	Coexistence of liquid and solid phases of Bmim-PF6 ionic liquid on mica surfaces at room temperature. <i>Journal of the American Chemical Society</i> , 2006 , 128, 7456-7	16.4	140
191	Preparation of Poly(acrylic acid) Grafted Multiwalled Carbon Nanotubes by a Two-Step Irradiation Technique. <i>Macromolecules</i> , 2006 , 39, 330-334	5.5	133
190	Preparation of oligochitosan stabilized silver nanoparticles by gamma irradiation. <i>Radiation Physics and Chemistry</i> , 2007 , 76, 1126-1131	2.5	104
189	A new approach to the functionalization of single-walled carbon nanotubes with both alkyl and carboxyl groups. <i>Chemical Physics Letters</i> , 2005 , 402, 312-317	2.5	95
188	Drastic Phase Transition in Ionic Liquid [Dmim][Cl] Confined Between Graphite Walls: New Phase Formation. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 4618-4622	3.8	94
187	Double-layer formation of [Bmim][PF6] ionic liquid triggered by surface negative charge. <i>Langmuir</i> , 2010 , 26, 12667-72	4	78
186	A re-evaluation of the initial yield of the hydrated electron in the picosecond time range. <i>Radiation Physics and Chemistry</i> , 2005 , 72, 169-172	2.5	68
185	Liquid-to-Solid Phase Transition of a 1,3-Dimethylimidazolium Chloride Ionic Liquid Monolayer Confined between Graphite Walls. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 18584-18587	3.8	64
184	Gamma radiation effect on ionic liquid [bmim][BF4]. <i>Radiation Physics and Chemistry</i> , 2008 , 77, 877-883	2.5	64
183	Stabilized and size-tunable gold nanoparticles formed in a quaternary ammonium-based room-temperature ionic liquid under gamma-irradiation. <i>Nanotechnology</i> , 2005 , 16, 2360-4	3.4	57
182	Preparation of Amidoximated Ultrahigh Molecular Weight Polyethylene Fiber by Radiation Grafting and Uranium Adsorption Test. <i>Industrial & Engineering Chemistry Research</i> , 2016 , 55, 4118-4124	3.9	55
181	Laparoscopic exploration of common bile duct with primary closure versus T-tube drainage: a randomized clinical trial. <i>Journal of Surgical Research</i> , 2009 , 157, e1-5	2.5	55
180	Radiation synthesis of a new amidoximated UHMWPE fibrous adsorbent with high adsorption selectivity for uranium over vanadium in simulated seawater. <i>Radiation Physics and Chemistry</i> , 2016 , 122, 1-8	2.5	53
179	Functionalization of cotton fabrics with highly durable polysiloxane/Ag ⁺ hybrid layers: potential applications for photo-induced water-oil separation, UV shielding, and self-cleaning. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 6085-6095	13	52

178	Properties and evaluation of amidoxime-based UHMWPE fibrous adsorbent for extraction of uranium from seawater. <i>Science China Chemistry</i> , 2013 , 56, 1504-1509	7.9	50
177	Preparation of microporous poly(vinylidene fluoride) membranes via phase inversion in supercritical CO ₂ . <i>Journal of Membrane Science</i> , 2007 , 293, 100-110	9.6	44
176	Preparation of microcellular cross-linked polyethylene foams by a radiation and supercritical carbon dioxide approach. <i>Journal of Supercritical Fluids</i> , 2008 , 47, 281-289	4.2	44
175	Gamma radiolysis of ionic liquid 1-butyl-3-methylimidazolium hexafluorophosphate. <i>Radiation Research</i> , 2007 , 167, 508-14	3.1	44
174	Primary closure after laparoscopic common bile duct exploration versus T-tube. <i>Journal of Surgical Research</i> , 2014 , 189, 249-54	2.5	43
173	Preparation of Amidoxime-Based Nylon-66 Fibers for Removing Uranium from Low-Concentration Aqueous Solutions and Simulated Nuclear Industry Effluents. <i>Industrial & Engineering Chemistry Research</i> , 2016 , 55, 10523-10532	3.9	42
172	Comparison of Liquid-Phase and Gas-Phase Pure Thermal Cracking of n-Hexadecane. <i>Industrial & Engineering Chemistry Research</i> , 1996 , 35, 4747-4754	3.9	41
171	Preparation and characterization of superhydrophobic organic-inorganic hybrid cotton fabrics via γ -radiation-induced graft polymerization. <i>Carbohydrate Polymers</i> , 2016 , 149, 308-16	10.3	40
170	Molecular insights into the electric double layers of ionic liquids on Au(100) electrodes. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 12556-65	9.5	40
169	Electron Beam Irradiation as a General Approach for the Rapid Synthesis of Covalent Organic Frameworks under Ambient Conditions. <i>Journal of the American Chemical Society</i> , 2020 , 142, 9169-9174	16.4	35
168	Unravelling the Role of the Compressed Gas on Melting Point of Liquid Confined in Nanospace. <i>Journal of Physical Chemistry Letters</i> , 2012 , 3, 1052-5	6.4	35
167	Radiation-induced oxidation of ultra-high molecular weight polyethylene (UHMWPE) powder by gamma rays and electron beams: A clear dependence of dose rate. <i>Radiation Physics and Chemistry</i> , 2015 , 115, 88-96	2.5	34
166	Dilute or Concentrated Electrolyte Solutions? Insight from Ionic Liquid/Water Electrolytes. <i>Journal of Physical Chemistry Letters</i> , 2015 , 6, 3713-20	6.4	34
165	Melting Transition of Ionic Liquid [bmim][PF ₆] Crystal Confined in Nanopores: A Molecular Dynamics Simulation. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 18946-18951	3.8	34
164	Fabrication of highly durable polysiloxane-zinc oxide (ZnO) coated polyethylene terephthalate (PET) fabric with improved ultraviolet resistance, hydrophobicity, and thermal resistance. <i>Journal of Colloid and Interface Science</i> , 2019 , 537, 91-100	9.3	34
163	Uranium Adsorption Tests of Amidoxime-Based Ultrahigh Molecular Weight Polyethylene Fibers in Simulated Seawater and Natural Coastal Marine Seawater from Different Locations. <i>Industrial & Engineering Chemistry Research</i> , 2017 , 56, 1103-1111	3.9	33
162	Electrochemical Behavior of Europium(III)-Europium(II) in LiF-NaF-KF Molten Salt. <i>Electrochimica Acta</i> , 2014 , 147, 114-120	6.7	33
161	Preparation of microcellular polystyrene/polyethylene alloy foams by supercritical CO ₂ foaming and analysis by X-ray microtomography. <i>Journal of Supercritical Fluids</i> , 2013 , 82, 50-55	4.2	33

160	ESR study of free radicals in UHMW-PE fiber irradiated by gamma rays. <i>Radiation Physics and Chemistry</i> , 2010 , 79, 429-433	2.5	33
159	Significant Improvement in Thermal and UV Resistances of UHMWPE Fabric through in Situ Formation of Polysiloxane-TiO ₂ Hybrid Layers. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 23311-2095	9.5	33
158	Immobilization and melting point depression of imidazolium ionic liquids on the surface of nano-SiO _x particles. <i>Dalton Transactions</i> , 2010 , 39, 3190-4	4.3	32
157	Preparation, characterization and antibacterial activity of chitosan- α 3V10O ₂₈ complex membrane. <i>Carbohydrate Polymers</i> , 2006 , 64, 92-97	10.3	32
156	Effects of Ionic Liquid [Me ₃ NC ₂ H ₄ OH]+[ZnCl ₂] on Radiation Polymerization of Methyl Methacrylate in Ethanol and N,N-Dimethylformamide. <i>Macromolecular Rapid Communications</i> , 2005 , 26, 57-61	4.8	32
155	Effect of oxygen on the corrosion of SiC in LiF-NaF molten salt. <i>Corrosion Science</i> , 2016 , 103, 165-172	6.8	31
154	An in situ XAFS study—the formation mechanism of gold nanoparticles from X-ray-irradiated ionic liquid. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 11904-8	3.6	31
153	Preparation of open cellular PMMA microspheres by supercritical carbon dioxide foaming. <i>Journal of Supercritical Fluids</i> , 2007 , 40, 323-329	4.2	31
152	Radiation-induced crosslinking of polyacrylonitrile fibers and the subsequent regulative effect on the preoxidation process. <i>Radiation Physics and Chemistry</i> , 2012 , 81, 622-627	2.5	30
151	Extended X-ray Absorption Fine Structure and Density Functional Theory Studies on the Complexation Mechanism of Amidoximate Ligand to Uranyl Carbonate. <i>Industrial & Engineering Chemistry Research</i> , 2016 , 55, 4224-4230	3.9	29
150	Treatment of gallbladder stone with common bile duct stones in the laparoscopic era. <i>BMC Surgery</i> , 2015 , 15, 7	2.3	29
149	The free radical species in polyacrylonitrile fibers induced by radiation and their decay behaviors. <i>Radiation Physics and Chemistry</i> , 2012 , 81, 835-839	2.5	29
148	Structural analysis of [ChCl](m)[ZnCl ₂](n) ionic liquid by X-ray absorption fine structure spectroscopy. <i>Journal of Physical Chemistry B</i> , 2009 , 113, 2066-70	3.4	27
147	Grafting of Poly(tBA) and PtBA-b-PMMA onto the Surface of SWNTs Using Carbanions as the Initiator. <i>Macromolecular Rapid Communications</i> , 2006 , 27, 882-887	4.8	27
146	Radiation effects on the foaming of atactic polypropylene with supercritical carbon dioxide. <i>Radiation Physics and Chemistry</i> , 2017 , 131, 35-40	2.5	26
145	Noncovalently modified carbon nanotubes with carboxymethylated chitosan: a controllable donor-acceptor nanohybrid. <i>International Journal of Molecular Sciences</i> , 2008 , 9, 120-30	6.3	26
144	An efficient and reusable quaternary ammonium fabric adsorbent prepared by radiation grafting for removal of Cr(VI) from wastewater. <i>Environmental Science and Pollution Research</i> , 2018 , 25, 11045-11053	5.1	25
143	Crystal structure and mechanical properties of UHMWPE-g-PMA fiber prepared by radiation grafting. <i>Radiation Physics and Chemistry</i> , 2013 , 86, 84-89	2.5	25

142	In vitro hemocompatibility of sulfonated polypropylene non-woven fabric prepared via a facile E-ray pre-irradiation grafting method. <i>Applied Surface Science</i> , 2015 , 356, 1221-1228	6.7	24
141	Improving the creep resistance and tensile property of UHMWPE sheet by radiation cross-linking and annealing. <i>Radiation Physics and Chemistry</i> , 2016 , 125, 41-49	2.5	24
140	In-situ mineralized robust polysiloxane-Ag@ZnO on cotton for enhanced photocatalytic and antibacterial activities. <i>Carbohydrate Polymers</i> , 2019 , 217, 15-25	10.3	23
139	Compression of ionic liquid when confined in porous silica nanoparticles. <i>RSC Advances</i> , 2013 , 3, 9618	3.7	23
138	Radiation effects of UHMW-PE fibre on gel fraction and mechanical properties. <i>Radiation Physics and Chemistry</i> , 2011 , 80, 274-277	2.5	23
137	Water-absorptivity and mechanical behaviors of PTFE/PA6 and PTFE/PA66 blends. <i>Transactions of Nonferrous Metals Society of China</i> , 2006 , 16, s498-s503	3.3	23
136	Merits of the Addition of PTFE Micropowder in Supercritical Carbon Dioxide Foaming of Polypropylene: Ultrahigh Cell Density, High Tensile Strength, and Good Sound Insulation. <i>Industrial & Engineering Chemistry Research</i> , 2018 , 57, 1498-1505	3.9	22
135	A strategy for the preparation of closed-cell and crosslinked polypropylene foam by supercritical CO ₂ foaming. <i>Journal of Applied Polymer Science</i> , 2018 , 135, 45809	2.9	22
134	Reversible tuning of the hydrophobic/hydrophilic transition of hydrophobic ionic liquids by means of an electric field. <i>Soft Matter</i> , 2011 , 7, 4228	3.6	22
133	Mass distribution and diffusion of [1-butyl-3-methylimidazolium][Y] ionic liquids adsorbed on the graphite surface at 300-800 K. <i>ChemPhysChem</i> , 2010 , 11, 2438-43	3.2	22
132	60Co γ -initiated polymerization of vinyl monomers in room temperature ionic liquid/THF mixed solutions. <i>Polymer</i> , 2005 , 46, 8403-8409	3.9	22
131	Amelioration of Enterotoxigenic -Induced Intestinal Barrier Disruption by Low-Molecular-Weight Chitosan in Weaned Pigs is Related to Suppressed Intestinal Inflammation and Apoptosis. <i>International Journal of Molecular Sciences</i> , 2019 , 20,	6.3	21
130	Radiation oxidation and subsequent thermal curing of polyacrylonitrile fiber. <i>Radiation Physics and Chemistry</i> , 2014 , 94, 9-13	2.5	21
129	The controlled synthesis of stable gold nanoparticles in quaternary ammonium ionic liquids by simple heating. <i>Nanotechnology</i> , 2011 , 22, 025602	3.4	21
128	Flexible and Thermally Induced Switchable Fire Alarm Fabric Based On Layer-by-Layer Self-Assembled Silver Sheet/FeO Nanowire Composite. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 47456-47467	9.5	21
127	DFT investigations of uranium complexation with amidoxime-, carboxyl- and mixed amidoxime/carboxyl-based host architectures for sequestering uranium from seawater. <i>Inorganica Chimica Acta</i> , 2016 , 441, 117-125	2.7	20
126	Preparation of radiation crosslinked foams from low-density polyethylene/ethylene-vinyl acetate (LDPE/EVA) copolymer blend with a supercritical carbon dioxide approach. <i>Journal of Applied Polymer Science</i> , 2013 , 127, 912-918	2.9	20
125	Radiation-induced graft polymerization for the preparation of a highly efficient UHMWPE fibrous adsorbent for Cr(VI) removal. <i>Radiation Physics and Chemistry</i> , 2017 , 130, 92-102	2.5	20

124	Tribological properties of radiation cross-linked polytetrafluoroethylene sheets. <i>Wear</i> , 2010 , 269, 485-495	2.5	20
123	Temperature dependence of radiation effects in polyethylene: Cross-linking and gas evolution. <i>Journal of Polymer Science Part A</i> , 1999 , 37, 1541-1548	2.5	20
122	Supercritical CO ₂ foaming of radiation crosslinked polypropylene/high-density polyethylene blend: Cell structure and tensile property. <i>Radiation Physics and Chemistry</i> , 2017 , 141, 276-283	2.5	19
121	Low-Molecular-Weight Chitosan Supplementation Increases the Population of in the Cecal Contents of Weanling Pigs. <i>Frontiers in Microbiology</i> , 2017 , 8, 2182	5.7	19
120	Sequestering uranium from UO ₂ (CO ₃) ₃ (4-) in seawater with amine ligands: density functional theory calculations. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 14662-73	3.6	19
119	Polymorphous crystals from chlorozincate-choline chloride ionic liquids in different molar ratios. <i>Journal of Crystal Growth</i> , 2005 , 281, 616-622	1.6	19
118	Supercritical CO ₂ Foaming of Radiation Cross-Linked Isotactic Polypropylene in the Presence of TAIC. <i>Molecules</i> , 2016 , 21,	4.8	19
117	Optimization of molar content of amidoxime and acrylic acid in UHMWPE fibers for improvement of seawater uranium adsorption capacity. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2017 , 311, 1771-1779	1.5	17
116	Trace Zinc-Preload for Enhancement of Uranium Adsorption Performance and Antifouling Property of AO-Functionalized UHMWPE Fiber. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 8026-8034	3.9	17
115	Temperature-Induced Molecular Rearrangement of an Ionic Liquid Confined in Nanospaces: An in Situ X-ray Absorption Fine Structure Study. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 22724-22731	3.8	17
114	Synergistic effects of different co-monomers on the uranium adsorption performance of amidoximated polyethylene nonwoven fabric in natural seawater. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2018 , 315, 111-117	1.5	17
113	Origin of heterogeneous dynamics in local molecular structures of ionic liquids. <i>Soft Matter</i> , 2016 , 12, 8942-8949	3.6	17
112	Temperature Dependence of (SCN) ₂ in Water at 25-400 °C: Absorption Spectrum, Equilibrium Constant, and Decay. <i>Journal of Physical Chemistry A</i> , 2001 , 105, 4933-4939	2.8	17
111	Significantly reduced pre-oxidation period of PAN fibers by continuous electron beam irradiation: Optimization by monitoring radical variation. <i>Polymer Degradation and Stability</i> , 2018 , 158, 72-82	4.7	17
110	Temperature dependence of ketyl radical in aqueous benzophenone solutions up to 400 °C: A pulse radiolysis study. <i>Physical Chemistry Chemical Physics</i> , 2002 , 4, 3980-3988	3.6	16
109	Photolytic and radiolytic studies of SO ₄ ^{•-} in neat organic solvents. <i>Physical Chemistry Chemical Physics</i> , 2000 , 2, 5602-5605	3.6	16
108	Electron-beam-induced post-grafting polymerization of acrylic acid onto the surface of Kevlar fibers. <i>Radiation Physics and Chemistry</i> , 2018 , 145, 74-79	2.5	15
107	A new promising nucleating agent for polymer foaming: effects of hollow molecular-sieve particles on polypropylene supercritical CO ₂ microcellular foaming. <i>RSC Advances</i> , 2018 , 8, 20061-20067	3.7	15

106	Increased of serum high-mobility group box chromosomal protein 1 correlated with intestinal mucosal barrier injury in patients with severe acute pancreatitis. <i>World Journal of Emergency Surgery</i> , 2014 , 9, 61	9.2	15
105	Radiation induced polymerization of MMA in imidazolium ionic liquids and their mixed solutions with organic solvents. <i>Radiation Physics and Chemistry</i> , 2008 , 77, 1248-1252	2.5	15
104	Fe3O4 Nanowire Arrays on Flexible Polypropylene Substrates for UV and Magnetic Sensing. <i>ACS Applied Nano Materials</i> , 2018 , 1, 5742-5752	5.6	15
103	Efficient removal of uranium from diluted aqueous solution with hydroxypyridone functionalized polyethylene nonwoven fabrics. <i>Radiation Physics and Chemistry</i> , 2020 , 171, 108742	2.5	14
102	Functionalized polyethylene fibers for the selective capture of palladium ions from aqueous solution. <i>Applied Surface Science</i> , 2018 , 433, 116-124	6.7	14
101	Effects of ionic liquid [bmim][PF6] on absorption spectra and reaction kinetics of the duroquinone triplet state in acetonitrile. <i>Journal of Physical Chemistry A</i> , 2008 , 112, 3079-85	2.8	14
100	Study on polytetrafluoroethylene aqueous dispersion irradiated by gamma ray. <i>Journal of Fluorine Chemistry</i> , 2006 , 127, 91-96	2.1	14
99	Laser photolysis of carboxymethylated chitin derivatives in aqueous solution. Part 1. Formation of hydrated electron and a long-lived radical. <i>Biomacromolecules</i> , 2004 , 5, 453-7	6.9	14
98	Preparation of amidoxime-based PE/PP fibers for extraction of uranium from aqueous solution. <i>Nuclear Science and Techniques/Hewuli</i> , 2019 , 30, 1	2.1	14
97	Better scCO2 Foaming of Polypropylene via Earlier Crystallization with the Addition of Composite Nucleating Agent. <i>Industrial & Engineering Chemistry Research</i> , 2018 , 57, 15916-15923	3.9	14
96	The photochemistry of carbon nanotubes and its impact on the photo-degradation of dye pollutants in aqueous solutions. <i>Journal of Colloid and Interface Science</i> , 2015 , 439, 98-104	9.3	13
95	The influence of silica nanoparticles on ionic liquid behavior: a clear difference between adsorption and confinement. <i>International Journal of Molecular Sciences</i> , 2013 , 14, 21045-52	6.3	13
94	Radiation resistance evaluation of cross-linked polytetrafluoroethylene by the investigation of friction and wear behavior. <i>Radiation Physics and Chemistry</i> , 2011 , 80, 496-500	2.5	13
93	Functionalized and reusable polyethylene fibres for Au(III) extraction from aqueous solution with high adsorption capacity and selectivity. <i>RSC Advances</i> , 2016 , 6, 87221-87229	3.7	13
92	Flexible and Highly Sensitive Humidity Sensor Based on Sandwich-Like Ag/FeO Nanowires Composite for Multiple Dynamic Monitoring. <i>Nanomaterials</i> , 2019 , 9,	5.4	12
91	Preparation of antimicrobial MnO4E-doped nylon-66 fibers with excellent laundering durability. <i>Applied Surface Science</i> , 2017 , 422, 1067-1074	6.7	12
90	An easy approach to hydroxyethylated SWNTs and the high thermal stability of the inner grafted hydroxyethyl groups. <i>Nanotechnology</i> , 2006 , 17, 2368-2372	3.4	12
89	Optimum complexation of uranyl with amidoxime in aqueous solution under different pH levels: density functional theory calculations. <i>Molecular Physics</i> , 2015 , 113, 1327-1336	1.7	11

88	Stretchable conductive Ni@Fe ₃ O ₄ @Polyester fabric strain sensor with negative resistance variation and electromagnetic interference shielding. <i>Organic Electronics</i> , 2020 , 81, 105677	3.5	11
87	Highly hydrophilic ultra-high molecular weight polyethylene powder and film prepared by radiation grafting of acrylic acid. <i>Applied Surface Science</i> , 2016 , 382, 162-169	6.7	11
86	Laser photolysis study of anthraquinone in binary mixtures of ionic liquid [bmim][PF ₆] and organic solvent. <i>International Journal of Molecular Sciences</i> , 2006 , 7, 590-600	6.3	11
85	Reactions of reducing and oxidizing radicals with caffeic acid: a pulse radiolysis and theoretical study. <i>Radiation Physics and Chemistry</i> , 2001 , 60, 345-350	2.5	11
84	Complexation of vanadium with amidoxime and carboxyl groups: uncovering the competitive role of vanadium in uranium extraction from seawater. <i>Radiochimica Acta</i> , 2017 , 105, 541-553	1.9	10
83	Amidoxime-based adsorbents prepared by cograftering acrylic acid with acrylonitrile onto HDPE fiber for the recovery of uranium from seawater. <i>Nuclear Science and Techniques/Hewuli</i> , 2017 , 28, 1	2.1	10
82	Phosphate-Based Ultrahigh Molecular Weight Polyethylene Fibers for Efficient Removal of Uranium from Carbonate Solution Containing Fluoride Ions. <i>Molecules</i> , 2018 , 23,	4.8	10
81	Fluoride ion yield and absorption spectral analysis of irradiated imidazolium-based room-temperature ionic liquids. <i>Radiation Physics and Chemistry</i> , 2011 , 80, 573-577	2.5	10
80	Radiation Effect on the Thermal Cracking of n-Hexadecane. 1. Products from Radiation-Thermal Cracking. <i>Industrial & Engineering Chemistry Research</i> , 1997 , 36, 1973-1978	3.9	10
79	Radiation Effect on the Thermal Cracking of n-Hexadecane. 2. A Kinetic Approach to Chain Reaction. <i>Industrial & Engineering Chemistry Research</i> , 1997 , 36, 3498-3504	3.9	10
78	Photoinduced Charge Separation in Riboflavin/Carbon Nanotubes Superstructures. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 13000-13003	3.8	10
77	Laser photolysis of carboxymethylated chitin derivatives in aqueous solution. Part 2. Reaction of OH* and SO ₄ *- radicals with carboxymethylated chitin derivatives. <i>Biomacromolecules</i> , 2004 , 5, 458-62	6.9	10
76	Hundreds- and tens-femtosecond time-resolved pump-and-probe analysis system. <i>Radiation Physics and Chemistry</i> , 2001 , 60, 303-306	2.5	10
75	In vitro anticoagulant activity of polyanionic graft chains modified poly(vinyl alcohol) particles. <i>Radiation Physics and Chemistry</i> , 2017 , 134, 27-32	2.5	9
74	High-Strength Triple Shape Memory Elastomers from Radiation-Vulcanized Polyolefin Elastomer/Polypropylene Blends. <i>ACS Applied Polymer Materials</i> , 2019 , 1, 1735-1748	4.3	9
73	Pt ₂ Cl ₈ ²⁻ Dimer Formation of [Bmim] ₂ PtCl ₄ Ionic Liquid When Confined in Silica Nanopores. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 3140-3144	3.8	9
72	Water dispersible polytetrafluoroethylene microparticles prepared by grafting of poly(acrylic acid). <i>Radiation Physics and Chemistry</i> , 2014 , 103, 103-107	2.5	9
71	Folate-polyethylene glycol conjugated carboxymethyl chitosan for tumor-targeted delivery of 5-fluorouracil. <i>Molecular Medicine Reports</i> , 2014 , 9, 786-92	2.9	9

70	On the mechanism of radiation-induced polymerization of vinyl monomers in ionic liquid. <i>Radiation Physics and Chemistry</i> , 2005 , 73, 159-162	2.5	9
69	Observation of hydrated electron, (SCN) ₂ ·- and CO ₃ ·- radical in high temperature and supercritical water. <i>Research on Chemical Intermediates</i> , 2001 , 27, 755-763	2.8	9
68	In-situ formation of durable akaganeite (β-FeOOH) nanorods on sulfonate-modified poly(ethylene terephthalate) fabric for dual-functional wastewater treatment. <i>Journal of Hazardous Materials</i> , 2020 , 386, 121647	12.8	9
67	Improving the Supercritical CO ₂ Foaming of Polypropylene by the Addition of Fluoroelastomer as a Nucleation Agent. <i>Polymers</i> , 2019 , 11,	4.5	9
66	High thermal insulation and compressive strength polypropylene microcellular foams with honeycomb structure. <i>Polymer Degradation and Stability</i> , 2021 , 183, 109406	4.7	9
65	Tris-amidoximate uranyl complexes via binding mode coordinated in aqueous solution shown by X-ray absorption spectroscopy and density functional theory methods. <i>Journal of Synchrotron Radiation</i> , 2018 , 25, 514-522	2.4	8
64	Crystal size shrinking in radiation-induced crosslinking of polytetrafluoroethylene: Synchrotron small angle X-ray scattering and scanning electron microscopy analysis. <i>European Polymer Journal</i> , 2014 , 59, 156-160	5.2	8
63	High-performance functionalized polyethylene fiber for the capture of trace uranium in water. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2017 , 314, 2393-2403	1.5	8
62	Radiation-Induced -Printed Nonconjugated Fluorescent Nonwoven Fabric with Superior Fluorescent Properties. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 49258-49264	9.5	8
61	Electrochemical Behavior of Graphite Anode in LiF-NaF-KF Eutectic with YF ₃ . <i>Electrochimica Acta</i> , 2017 , 225, 392-398	6.7	7
60	Probing the spontaneous reduction mechanism of platinum ions confined in the nanospace by X-ray absorption fine structure spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 19259-66	3.6	7
59	Highly Durable and Robust Superhydrophobic/Superoleophilic Cotton Fabric with Well-designed Roughness for Oil/Water Separation. <i>Fibers and Polymers</i> , 2018 , 19, 1522-1531	2	7
58	Higher dose rate effect of 500-keV EB irradiation favoring free radical annealing and pre-oxidation of polyacrylonitrile fibers. <i>Polymer Degradation and Stability</i> , 2019 , 167, 201-209	4.7	7
57	An Amidoximated-UHMEPE Fiber for Selective and High Efficient Removal of Uranyl and Thorium from Acid Aqueous Solution. <i>Advances in Chemical Engineering and Science</i> , 2017 , 07, 45-59	0.4	7
56	A highly efficient pathway to recover gold from acid aqueous solution by using an amidoxime-functionalized UHMWPE fiber. <i>Rare Metals</i> , 2019 , 38, 1105-1112	5.5	6
55	Pulse radiolysis studies of functionally substituted imidazolium-based ionic liquids. <i>Science Bulletin</i> , 2012 , 57, 2752-2758		6
54	Photo-induced interfacial electron transfer from CdSe quantum dots to surface-bound p-benzoquinone and anthraquinone. <i>Research on Chemical Intermediates</i> , 2007 , 33, 655-661	2.8	6
53	A Rheological Study of Binary Mixtures of Ionic Liquid [Me ₃ NC ₂ H ₄ OH] ⁺ [Zn ₂ Cl ₅] ⁻ and Ethanol. <i>Applied Rheology</i> , 2006 , 16, 334-339	1.2	6

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12	Tightly-coated and easily recyclable Ag@AgBr-cotton hybrid photocatalyst for organic dye degradation under visible light. <i>Cellulose</i> , 2020 , 27, 10047-10060	5.5	1
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