

James F Wishart

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157
papers

6,675
citations

41
h-index

77
g-index

173
ext. papers

7,093
ext. citations

6.1
avg, IF

6.04
L-index

#	Paper	IF	Citations
157	Energy applications of ionic liquids. <i>Energy and Environmental Science</i> , 2009 , 2, 956	35.4	406
156	Physical properties of ionic liquids consisting of the 1-butyl-3-methylimidazolium cation with various anions and the bis(trifluoromethylsulfonyl)imide anion with various cations. <i>Journal of Physical Chemistry B</i> , 2008 , 112, 81-92	3.4	358
155	Spotlight on ionic liquids. <i>Journal of Chemical Physics</i> , 2010 , 132, 120901	3.9	343
154	Ionic liquids: structure and photochemical reactions. <i>Annual Review of Physical Chemistry</i> , 2011 , 62, 85-105	15.7	281
153	Peptide-mediated intramolecular electron transfer: long-range distance dependence. <i>Chemical Reviews</i> , 1992 , 92, 381-394	68.1	246
152	Intermolecular dynamics, interactions, and solvation in ionic liquids. <i>Accounts of Chemical Research</i> , 2007 , 40, 1217-27	24.3	215
151	Fluorescence probing of temperature-dependent dynamics and friction in ionic liquid local environments. <i>Journal of Physical Chemistry B</i> , 2007 , 111, 4963-77	3.4	158
150	Spectrum and Reactivity of the Solvated Electron in the Ionic Liquid Methyltributylammonium Bis(trifluoromethylsulfonyl)imide. <i>Journal of Physical Chemistry B</i> , 2003 , 107, 7261-7267	3.4	152
149	Ultrafast dynamics of pyrrolidinium cation ionic liquids. <i>Journal of Chemical Physics</i> , 2005 , 122, 184512	3.9	151
148	Long-range electron transfer across Peptide bridges: the transition from electron superexchange to hopping. <i>Journal of the American Chemical Society</i> , 2004 , 126, 13888-9	16.4	148
147	The Physical Chemistry of Ionic Liquids. <i>Journal of Physical Chemistry B</i> , 2007 , 111, 4639-4640	3.4	142
146	Tetraalkylphosphonium polyoxometalate ionic liquids: novel, organic-inorganic hybrid materials. <i>Journal of Physical Chemistry B</i> , 2007 , 111, 4685-92	3.4	140
145	What Makes Fluoroethylene Carbonate Different?. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 14954-14958	5.8	132
144	The distance dependence of intramolecular electron-transfer rates: importance of the nuclear factor. <i>Journal of the American Chemical Society</i> , 1988 , 110, 635-637	16.4	131
143	The LEAF picosecond pulse radiolysis facility at Brookhaven National Laboratory. <i>Review of Scientific Instruments</i> , 2004 , 75, 4359-4366	1.7	113
142	The initial stages of radiation damage in ionic liquids and ionic liquid-based extraction systems. <i>Journal of Physical Chemistry B</i> , 2007 , 111, 11786-93	3.4	112
141	Structure of 1-alkyl-1-methylpyrrolidinium bis(trifluoromethylsulfonyl)amide ionic liquids with linear, branched, and cyclic alkyl groups. <i>Journal of Physical Chemistry B</i> , 2013 , 117, 15328-37	3.4	107

140	Heavy atom substitution effects in non-aromatic ionic liquids: ultrafast dynamics and physical properties. <i>Journal of Physical Chemistry B</i> , 2010 , 114, 9400-12	3.4	105
139	Intermolecular interactions and dynamics of room temperature ionic liquids that have silyl- and siloxy-substituted imidazolium cations. <i>Journal of Physical Chemistry B</i> , 2007 , 111, 4819-29	3.4	103
138	Nuclear magnetic resonance study of the dynamics of imidazolium ionic liquids with -CH ₂ Si(CH ₃) ₃ vs -CH ₂ C(CH ₃) ₃ substituents. <i>Journal of Physical Chemistry B</i> , 2007 , 111, 4885-93	3.4	95
137	Radiation induced redox reactions and fragmentation of constituent ions in ionic liquids. 1. Anions. <i>Journal of Physical Chemistry B</i> , 2011 , 115, 3872-88	3.4	86
136	Pulse Radiolysis Study of the Reactions of Hydrogen Atoms in the Ionic Liquid Methyltributylammonium Bis[(trifluoromethyl)sulfonyl]imide. <i>Journal of Physical Chemistry A</i> , 2003 , 107, 9794-9799	2.8	85
135	A dendrimer-based electron antenna: paired electron-transfer reactions in dendrimers with a 4,4Pbipyridine core and naphthalene peripheral groups. <i>Journal of the American Chemical Society</i> , 2002 , 124, 8285-9	16.4	85
134	Effects of functional group substitution on electron spectra and solvation dynamics in a family of ionic liquids. <i>Radiation Physics and Chemistry</i> , 2005 , 72, 99-104	2.5	80
133	Efficient Generation of the Ligand Field Excited State of Tris-(2,2Bipyridine)-ruthenium(II) through Sequential Two-Photon Capture by [Ru(bpy) ₃] ²⁺ or Electron Capture by [Ru(bpy) ₃] ³⁺ . <i>Journal of Physical Chemistry A</i> , 2001 , 105, 8117-8122	2.8	80
132	Mechanism of the formation of a Mn-based CO ₂ reduction catalyst revealed by pulse radiolysis with time-resolved infrared detection. <i>Journal of the American Chemical Society</i> , 2014 , 136, 5563-6	16.4	79
131	Charge trapping in imidazolium ionic liquids. <i>Journal of Physical Chemistry B</i> , 2009 , 113, 5582-92	3.4	79
130	Tetraalkylphosphonium polyoxometalates: electroactive, "task-specific" ionic liquids. <i>Dalton Transactions</i> , 2007 , 529-31	4.3	71
129	Radiation induced redox reactions and fragmentation of constituent ions in ionic liquids. 2. Imidazolium cations. <i>Journal of Physical Chemistry B</i> , 2011 , 115, 3889-902	3.4	69
128	Thermodynamics and kinetics of carbon dioxide binding to two stereoisomers of a cobalt(I) macrocycle in aqueous solution. <i>Journal of the American Chemical Society</i> , 1991 , 113, 3361-3371	16.4	69
127	Distance dependence of intramolecular electron transfer across oligoprolines in [(bpy) ₂ Ru(III).bul.-(Pro) _n -Co(II)(NH ₃) ₅] ³⁺ , n = 1-6: different effects for helical and nonhelical polyproline II structure. <i>The Journal of Physical Chemistry</i> , 1993 , 97, 11456-11463		67
126	Electron transfer across polypeptides. 6. Long-range electron transfer in osmium-ruthenium binuclear complexes bridged with oligoproline peptides. <i>Journal of the American Chemical Society</i> , 1990 , 112, 7278-7286	16.4	61
125	De Novo Design of Protein Function: Predictable StructureFunction Relationships in Synthetic Redox Proteins. <i>Journal of the American Chemical Society</i> , 1999 , 121, 858-859	16.4	52
124	Long range electron transfer in helical polyproline II oligopeptides. <i>Chemical Physics</i> , 1993 , 176, 589-600	2.3	52
123	Ionic Liquids and Ionizing Radiation: Reactivity of Highly Energetic Species. <i>Journal of Physical Chemistry Letters</i> , 2010 , 1, 3225-3231	6.4	51

122	Pulse radiolysis and steady-state analyses of the reaction between hydroethidine and superoxide and other oxidants. <i>Archives of Biochemistry and Biophysics</i> , 2006 , 456, 39-47	4.1	51
121	Trialkylammoniododecaborates: anions for ionic liquids with potassium, lithium and protons as cations. <i>Chemistry - A European Journal</i> , 2008 , 14, 1918-23	4.8	48
120	Pulse radiolysis studies of melatonin and chloromelatonin. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 1998 , 42, 125-32	6.7	47
119	Design and Characterization of A Synthetic Electron-Transfer Protein. <i>Journal of the American Chemical Society</i> , 2000 , 122, 7999-8006	16.4	46
118	A very short ruthenium(II)-nitrogen heterocycle bond: Crystal structures of pentaammine(N-methylpyrazinium)ruthenium(II) iodide and pentaammine(N-methylpyrazinium)ruthenium(III) p-toluenesulfonate pentahydrate. <i>Inorganic Chemistry</i> , 1986 , 25, 3318-3321	5.1	43
117	The Radiation Chemistry of Ionic Liquids: A Review. <i>Solvent Extraction and Ion Exchange</i> , 2014 , 32, 563-585		42
116	Ionic liquids and solids with paramagnetic anions. <i>Physical Chemistry Chemical Physics</i> , 2010 , 12, 8919-25	3.6	41
115	Reactivity of Acid Generators for Chemically Amplified Resists with Low-Energy Electrons. <i>Japanese Journal of Applied Physics</i> , 2006 , 45, L197-L200	1.4	41
114	Photochemical studies on xanthurenic acid. <i>Photochemistry and Photobiology</i> , 2000 , 72, 467-71	3.6	40
113	Comparative Kinetic Analysis of Reversible Intermolecular Electron-Transfer Reactions between a Series of Pentaammineruthenium Complexes and Cytochrome c. <i>Inorganic Chemistry</i> , 1996 , 35, 1564-1570	5.1	38
112	pH and Driving Force Dependence of Intramolecular Oxyferryl Heme Reduction in Myoglobin. <i>Journal of the American Chemical Society</i> , 1997 , 119, 4758-4764	16.4	37
111	A Comparison of the Radiolysis of TODGA and T(EH)DGA Using UHPLC-ESI-MS Analysis. <i>Solvent Extraction and Ion Exchange</i> , 2015 , 33, 431-447	2.5	35
110	Effects of Aromaticity in Cations and Their Functional Groups on the Low-Frequency Spectra and Physical Properties of Ionic Liquids. <i>Journal of Physical Chemistry B</i> , 2015 , 119, 9173-87	3.4	34
109	Electron solvation dynamics and reactivity in ionic liquids observed by picosecond radiolysis techniques. <i>Faraday Discussions</i> , 2012 , 154, 353-63; discussion 439-64, 465-71	3.6	34
108	Toward radiation-resistant ionic liquids. Radiation stability of sulfonyl imide anions. <i>Journal of Physical Chemistry B</i> , 2012 , 116, 9043-55	3.4	34
107	Radiation and radical chemistry of NO ₃ (-), HNO ₃ , and dialkylphosphoric acids in room-temperature ionic liquids. <i>Journal of Physical Chemistry B</i> , 2011 , 115, 10927-42	3.4	34
106	Extraction of Tetra-Oxo Anions into a Hydrophobic, Ionic Liquid-Based Solvent without Concomitant Ion Exchange. <i>Industrial & Engineering Chemistry Research</i> , 2010 , 49, 5863-5868	3.9	34
105	A dissociative pathway for equilibration of a hydrido CoL(H) ₂ + complex with carbon dioxide and carbon monoxide. Ligand binding constants in the macrocyclic [14]-dienecobalt(I) system. <i>Journal of the American Chemical Society</i> , 1989 , 111, 1153-1154	16.4	32

104	Convergence of spectroscopic and kinetic electron transfer parameters for mixed-valence binuclear dipyridylamide ruthenium ammine complexes. <i>Coordination Chemistry Reviews</i> , 2005 , 249, 507-516	23.2	31
103	A Comparison of Electron-Transfer Dynamics in Ionic Liquids and Neutral Solvents. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 5197-5208	3.8	30
102	Ionic liquids based on polynitrile anions: hydrophobicity, low proton affinity, and high radiolytic resistance combined. <i>Journal of Physical Chemistry B</i> , 2013 , 117, 7084-94	3.4	30
101	Enzyme activity in dialkyl phosphate ionic liquids. <i>Bioresource Technology</i> , 2011 , 102, 11200-3	11	30
100	High-pressure pulse-radiolysis study of intramolecular and intermolecular reduction of cytochrome c by ruthenium(II) ammine complexes. <i>Inorganic Chemistry</i> , 1992 , 31, 3986-3989	5.1	30
99	Radiation-induced fragmentation of diamide extraction agents in ionic liquid diluents. <i>Journal of Physical Chemistry B</i> , 2012 , 116, 2234-43	3.4	29
98	Mechanistic Information from the First Volume Profile Analysis for a Reversible Intermolecular Electron-Transfer Reaction Involving Pentaammine(isonicotinamide)ruthenium and Cytochrome c. <i>Inorganic Chemistry</i> , 1994 , 33, 4744-4749	5.1	29
97	Recent Trends in Radiation Chemistry 2010 ,		29
96	Radiation stability of cations in ionic liquids. 2. Improved radiation resistance through charge delocalization in 1-benzylpyridinium. <i>Journal of Physical Chemistry B</i> , 2013 , 117, 14385-99	3.4	27
95	Do TFSA Anions Slither? Pressure Exposes the Role of TFSA Conformational Exchange in Self-Diffusion. <i>Journal of Physical Chemistry B</i> , 2015 , 119, 14756-65	3.4	26
94	Application of external-cavity quantum cascade infrared lasers to nanosecond time-resolved infrared spectroscopy of condensed-phase samples following pulse radiolysis. <i>Applied Spectroscopy</i> , 2010 , 64, 563-70	3.1	25
93	Pulse radiolysis studies of dendritic macromolecules with biphenyl peripheral groups and a ruthenium tris-bipyridine core. <i>Journal of the American Chemical Society</i> , 2001 , 123, 12832-6	16.4	25
92	cis-Bis(bipyridine)ruthenium Imidazole Derivatives: A Spectroscopic, Kinetic, and Structural Study. <i>Inorganic Chemistry</i> , 1996 , 35, 7241-7245	5.1	25
91	Synthesis, characterization and radiolytic properties of bis(oxalato)borate containing ionic liquids. <i>Radiation Physics and Chemistry</i> , 2009 , 78, 1120-1125	2.5	24
90	Electron Transfer from the Heme of Cytochrome c to Two Equidistant Redox-Modified Sites, Histidine 33 and Methionine 65: The Importance of Electronic Effects and Peptide Networks. <i>Journal of the American Chemical Society</i> , 1994 , 116, 8396-8397	16.4	24
89	Do Main Chain Hydrogen Bonds Create Dominant Electron Transfer Pathways? An Investigation in Designed Proteins. <i>Journal of Physical Chemistry B</i> , 2003 , 107, 7288-7292	3.4	23
88	Recombination of photogenerated lophyl radicals in imidazolium-based ionic liquids. <i>ChemPhysChem</i> , 2009 , 10, 3112-8	3.2	21
87	Radiation chemistry of methyl tert-butyl ether in aqueous solution. <i>Environmental Science & Technology</i> , 2004 , 38, 3994-4001	10.3	21

86	Development of nanosecond time-resolved infrared detection at the LEAF pulse radiolysis facility. <i>Review of Scientific Instruments</i> , 2015 , 86, 044102	1.7	20
85	Dynamics of Fast Reactions in Ionic Liquids. <i>ACS Symposium Series</i> , 2005 , 102-116	0.4	20
84	Photo- and radiation-chemistry of halide anions in ionic liquids. <i>Journal of Physical Chemistry A</i> , 2013 , 117, 5742-56	2.8	19
83	Mechanistic information from pressure acceleration of hydride formation via proton binding to a cobalt(II) macrocycle. <i>Inorganic Chemistry</i> , 2002 , 41, 1579-83	5.1	19
82	High-pressure pulse radiolysis. Modification of an optical cell for 2-MeV electron pulse radiolysis at pressures up to 200 MPa. <i>Review of Scientific Instruments</i> , 1992 , 63, 3224-3225	1.7	19
81	Importance of Ionic Liquid Solvation Dynamics to Their Applications in Advanced Devices and Systems. <i>Journal of Physical Chemistry Letters</i> , 2010 , 1, 1629-1630	6.4	18
80	Photocurrent generation in layer-by-layer assembled dendrimers with ruthenium tris-bipyridine peripheral groups and a viologen-like core. <i>Langmuir</i> , 2007 , 23, 10807-15	4	18
79	Conformational analysis of the electron-transfer kinetics across oligoproline peptides using N,N-dimethyl-1,4-benzenediamine donors and pyrene-1-sulfonyl acceptors. <i>Journal of Physical Chemistry B</i> , 2007 , 111, 6878-86	3.4	18
78	Connecting Structural and Transport Properties of Ionic Liquids with Cationic Oligoether Chains. <i>Journal of the Electrochemical Society</i> , 2017 , 164, H5247-H5262	3.9	17
77	Effect of surface charges on the rates of intermolecular electron-transfer between de novo designed metalloproteins. <i>Biochemistry</i> , 2001 , 40, 12186-92	3.2	16
76	Rate of Intramolecular Reduction of Oxyferryl Iron in Horse Heart Myoglobin. <i>Journal of the American Chemical Society</i> , 1994 , 116, 3169-3170	16.4	16
75	Enthalpies of reaction of pentaammineruthenium(II) complexes. <i>Inorganic Chemistry</i> , 1984 , 23, 2997-3003	3.1	16
74	Investigation of dynamics in BMIM TFSA ionic liquid through variable temperature and pressure NMR relaxometry and diffusometry. <i>Journal of the Electrochemical Society</i> , 2017 , 164, H5189-H5196	3.9	15
73	The role of organic solvent radical cations in separations ligand degradation. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2016 , 307, 2445-2449	1.5	15
72	Enantioselectivities in Electron-Transfer and Excited State Quenching Reactions of a Chiral Ruthenium Complex Possessing a Helical Structure. <i>Journal of Physical Chemistry A</i> , 1999 , 103, 5645-5654	2.8	15
71	Improving the radiation hardness of graphene field effect transistors. <i>Applied Physics Letters</i> , 2016 , 109, 153108	3.4	15
70	Dependence of Intramolecular Electron-Transfer Rates on Driving Force, pH, and Temperature in Ammineruthenium-Modified Ferrocycytochromes c. <i>Journal of Physical Chemistry B</i> , 1997 , 101, 687-693	3.4	14
69	Mechanistic Information from the First Volume Profile Analysis for Intramolecular Electron-Transfer Reactions: Tetraammineruthenium(Ligand) Complexes of Cytochrome c. <i>Inorganic Chemistry</i> , 1998 , 37, 6129-6135	5.1	14

68	Substituted tetraammineruthenium cytochrome c derivatives: Chemistry and electron-transfer reactions. <i>Inorganic Chemistry</i> , 1995 , 34, 3301-3309	5.1	14
67	Back-bonding effects of osmium(III): crystal structure of (.mu.-pyrazine)decaamminediosmium(III) chloride dihydrate. <i>Inorganic Chemistry</i> , 1985 , 24, 3969-3971	5.1	14
66	Structural analysis of ionic liquids with symmetric and asymmetric fluorinated anions. <i>Journal of Chemical Physics</i> , 2019 , 151, 074504	3.9	13
65	Connections between the Speciation and Solubility of Ni(II) and Co(II) in Molten ZnCl. <i>Journal of Physical Chemistry B</i> , 2020 , 124, 1253-1258	3.4	13
64	High-Field Magic Angle Spinning Dynamic Nuclear Polarization Using Radicals Created by Irradiation. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 4770-4776	6.4	13
63	Thermodynamic and Structural Effects of a Single Backbone Hydrogen Bond Deletion in a Metal-Assembled Helical Bundle Protein. <i>Journal of Physical Chemistry B</i> , 1998 , 102, 9975-9980	3.4	13
62	Arene-to-alkyne linkage isomerizations of diphenylacetylene on pentaammineosmium. <i>Inorganic Chemistry</i> , 1989 , 28, 2411-2413	5.1	13
61	Ultrafast Pulse Radiolysis Methods 2010 , 121-160		13
60	Electron-Transfer Dynamics for a Donor-Bridge-Acceptor Complex in Ionic Liquids. <i>Journal of Physical Chemistry B</i> , 2015 , 119, 11336-45	3.4	12
59	Photoinduced Bimolecular Electron Transfer in Ionic Liquids: Cationic Electron Donors. <i>Journal of Physical Chemistry B</i> , 2018 , 122, 2379-2388	3.4	12
58	Photo-detrapping of solvated electrons in an ionic liquid. <i>Radiation Physics and Chemistry</i> , 2009 , 78, 1129-1132	1.5	12
57	Intramolecular Electron Transfer in Pentaammineruthenium(III)-Modified Cobaltocytocrome c. <i>Inorganic Chemistry</i> , 1996 , 35, 5893-5901	5.1	12
56	Synthesis, structure, and magnetism of a new type of .pi.-molecular complex containing binuclear copper(II) complexes and benzene: bis[2,2-dimethyl-7-(phenylimino)-3,5,7-octanetrionato]dicopper(II)-benzene and	5.1	12
55	bis[2,2-dimethyl-7-(4-nitrophenylimino)-3,5,7-octanetrionato]dicopper(II)-bis(benzene). <i>Inorganic Chemistry</i> , 1983 , 22, 1657-1671 Interfacial Speciation Determines Interfacial Chemistry: X-ray-Induced Lithium Fluoride Formation from Water-in-salt Electrolytes on Solid Surfaces. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 23180-23187	16.4	12
54	Ultrafast transient absorption spectrum of the room temperature ionic liquid 1-hexyl-3-methylimidazolium bromide: Confounding effects of photo-degradation. <i>Radiation Physics and Chemistry</i> , 2015 , 117, 78-82	2.5	11
53	Radiation stability of cations in ionic liquids. 5. Task-specific ionic liquids consisting of biocompatible cations and the puzzle of radiation hypersensitivity. <i>Journal of Physical Chemistry B</i> , 2014 , 118, 10477-92	3.4	11
52	Binary Ionic Liquid Mixtures for Supercapacitor Applications. <i>ECS Transactions</i> , 2014 , 64, 57-69	1	11
51	The Radiation Chemistry of Ionic Liquids and its Implications for their Use in Nuclear Fuel Processing. <i>ACS Symposium Series</i> , 2010 , 119-134	0.4	11

50	Radiation Chemistry of Ionic Liquids: Reactivity of Primary Species. <i>ACS Symposium Series</i> , 2003 , 381-396	0.4	11
49	Ruthenium bisbipyridine complexes of horse heart cytochrome c: characterization and comparative intramolecular electron-transfer rates determined by pulse radiolysis and flash photolysis. <i>Inorganic Chemistry</i> , 2000 , 39, 2321-9	5.1	11
48	Cyclic phosphonium ionic liquids. <i>Beilstein Journal of Organic Chemistry</i> , 2014 , 10, 271-5	2.5	10
47	Kinetic Salt Effects on an Ionic Reaction in Ionic Liquid/Methanol Mixtures: Viscosity and Coulombic Screening Effects. <i>Chemistry Letters</i> , 2009 , 38, 236-237	1.7	10
46	Reactions of Charged Species in Supercritical Xenon as Studied by Pulse Radiolysis. <i>Journal of Physical Chemistry B</i> , 2003 , 107, 7281-7287	3.4	10
45	Molecular and electronic structure of the electron-transfer probe analog [trans-(NH ₃) ₄ Ru(imidazole)(isonicotinamide)](CF ₃ CO ₂) ₃ .cndot.2-propanol. <i>Inorganic Chemistry</i> , 1992 , 31, 3179-3181	5.1	10
44	In Situ Probing of Ion Ordering at an Electrified Ionic Liquid/Au Interface. <i>Advanced Materials</i> , 2017 , 29, 1606357	24	9
43	Accelerators and Other Sources for the Study of Radiation Chemistry. <i>Advances in Chemistry Series</i> , 1998 , 35-50		9
42	Investigating corrosion behavior of Ni and Ni-20Cr in molten ZnCl ₂ . <i>Corrosion Science</i> , 2021 , 179, 1091056.8		9
41	Effects of aromaticity in cations and their functional groups on the temperature dependence of low-frequency spectrum. <i>Journal of Chemical Physics</i> , 2018 , 148, 193805	3.9	8
40	Spectroscopic Assessment of Intra- and Intermolecular Hydrogen Bonding in Ether-Functionalized Imidazolium Ionic Liquids. <i>Journal of Physical Chemistry A</i> , 2019 , 123, 8370-8376	2.8	8
39	Exploring the Use of Ionic Liquid Mixtures to Enhance the Performance of Dicationic Ionic Liquids. <i>Journal of the Electrochemical Society</i> , 2017 , 164, H5150-H5159	3.9	8
38	The Chemistry of Separations Ligand Degradation by Organic Radical Cations. <i>Procedia Chemistry</i> , 2016 , 21, 61-65		8
37	Electrochemistry: general discussion. <i>Faraday Discussions</i> , 2018 , 206, 405-426	3.6	8
36	Copper(III) Pyrophosphate Complexes in Aqueous Solution. A Pulse Radiolysis Study at Ambient and High Pressure. <i>Journal of Physical Chemistry A</i> , 1997 , 101, 5131-5136	2.8	7
35	Site-Dependent Stereoselective Binding of Ruthenium Aquobipyridine Complexes to Histidine Side Chains in Horse Heart Cytochrome c. <i>Journal of the American Chemical Society</i> , 1998 , 120, 12970-12971	16.4	7
34	Radiation and Radical Chemistry of Ionic Liquids for Energy Applications. <i>ACS Symposium Series</i> , 2017 , 251-272	0.4	6
33	Ionic Liquid Radiation Chemistry 2014 , 259-274		6

32	Radiation-Assisted Formation of Metal Nanoparticles in Molten Salts. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 157-164	6.4	6
31	Interfacial Speciation Determines Interfacial Chemistry: X-ray-Induced Lithium Fluoride Formation from Water-in-salt Electrolytes on Solid Surfaces. <i>Angewandte Chemie</i> , 2020 , 132, 23380-23387	3.6	6
30	Formation of three-dimensional bicontinuous structures via molten salt dealloying studied in real-time by in situ synchrotron X-ray nano-tomography. <i>Nature Communications</i> , 2021 , 12, 3441	17.4	6
29	Structure and dynamics of ionic liquids: general discussion. <i>Faraday Discussions</i> , 2018 , 206, 291-337	3.6	6
28	Versatile compact heater design for in situ nano-tomography by transmission X-ray microscopy. <i>Journal of Synchrotron Radiation</i> , 2020 , 27, 746-752	2.4	5
27	Exploring the Effect of Structural Modification on the Physical Properties of Various Ionic Liquids. <i>ECS Transactions</i> , 2010 , 33, 659-665	1	5
26	Photochemistry and Radiation Chemistry: A Perspective. <i>Advances in Chemistry Series</i> , 1998 , 1-4		5
25	Accelerators for ultrafast phenomena. <i>Studies in Physical and Theoretical Chemistry</i> , 2001 , 87, 21-35		5
24	Uphill electron transfer in pentaammineruthenium(III)-modified ferrocycytochrome c: Rates, thermodynamics, and the mediating role of the ruthenium moiety. <i>Inorganic Chemistry</i> , 1995 , 34, 3998-4000	5.1	5
23	Determining oxidation states of transition metals in molten salt corrosion using electron energy loss spectroscopy. <i>Scripta Materialia</i> , 2021 , 197, 113790	5.6	5
22	Probing the Physical Properties, Synthesis and Cellulose Dissolution Ability of Dialkyl Phosphate Ionic Liquids. <i>Phosphorus, Sulfur and Silicon and the Related Elements</i> , 2015 , 190, 891-895	1	4
21	Electron Transfer Kinetics of Bifunctional Redox Protein Maquettes. <i>Advances in Chemistry Series</i> , 1998 , 145-159		4
20	Enthalpy of formation of nitrosylpentaammineruthenium(II) from nitrosium (aq) and aquopentaammineruthenium(II). <i>Inorganic Chemistry</i> , 1986 , 25, 1479-1481	5.1	4
19	On the nature of macroradicals formed upon radiolysis of aqueous poly(N-vinylpyrrolidone) solutions. <i>Radiation Physics and Chemistry</i> , 2020 , 174, 108900	2.5	4
18	Phase behaviour and thermodynamics: general discussion. <i>Faraday Discussions</i> , 2017 , 206, 113-139	3.6	4
17	Pulse Radiolysis and Computational Studies on a Pyrrolidinium Dicyanamide Ionic Liquid: Detection of the Dimer Radical Anion. <i>Journal of Physical Chemistry A</i> , 2018 , 122, 3148-3155	2.8	3
16	Radiation hardened graphene field effect transistors 2016 ,		3
15	Radiation Chemistry and Photochemistry of Ionic Liquids 2010 , 265-287		3

14	Design and performance of high-temperature furnace and cell holder for in situ spectroscopic, electrochemical, and radiolytic investigations of molten salts. <i>Review of Scientific Instruments</i> , 2020 , 91, 083105	1.7	3
13	A Holistic Approach for Elucidating Local Structure, Dynamics, and Speciation in Molten Salts with High Structural Disorder. <i>Journal of the American Chemical Society</i> , 2021 , 143, 15298-15308	16.4	3
12	Radiation Chemistry of Ionic Liquids. <i>ECS Proceedings Volumes</i> , 2004 , 2004-24, 802-813		2
11	Dynamics of Fast Reactions in Ionic Liquids. <i>ChemInform</i> , 2005 , 36, no		2
10	Visualizing time-dependent microstructural and chemical evolution during molten salt corrosion of Ni-20Cr model alloy using correlative quasi in situ TEM and in situ synchrotron X-ray nano-tomography. <i>Corrosion Science</i> , 2022 , 195, 109962	6.8	2
9	Photochemical Studies on Xanthurenic Acid. <i>Photochemistry and Photobiology</i> , 2007 , 72, 467-471	3.6	1
8	High Enantioselectivity in the Electron Transfer Reaction between a Ru(II) Complex of Menbpy Anion Radical, [Ru(menbpy) ₃] ⁺ [menbpy = 4,4'-di((1R,2S,5R)-1-menthoxycarbonyl)-2,2'-bipyridine] and [Co(acac) ₃]: A Pulse Radiolysis Study. <i>Chemistry Letters</i> , 1998 , 27, 1259-1260	1.7	1
7	Gamma radiation-induced defects in KCl, MgCl, and ZnCl salts at room temperature. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 10384-10394	3.6	1
6	Magic angle spinning dynamic nuclear polarization solid-state NMR spectroscopy of β -irradiated molecular organic solids. <i>Solid State Nuclear Magnetic Resonance</i> , 2022 , 119, 101785	3.1	1
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4	Intramolecular Electron Transfer in Tetraammine(L)ruthenium(III)-Modified Manganocytocromes c. <i>Inorganic Chemistry</i> , 1998 , 37, 1124-1126	5.1	
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2	Radiation Induced Reactions and Fragmentation in Room Temperature Ionic Liquids 2014 , 453-485		
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