James F Wishart

List of Publications by Year
in descending order

166 papers	7,605 citations	61984 43 h-index	58581 82 g-index
173 all docs	173 docs citations	173 times ranked	6406 citing authors

#	Article	IF	Citations
1	Energy applications of ionic liquids. Energy and Environmental Science, 2009, 2, 956.	30.8	451
2	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. Journal of Physical Chemistry B, 2008, 112, 81-92.	2.6	391
3	Spotlight on ionic liquids. Journal of Chemical Physics, 2010, 132, 120901.	3.0	366
4	Ionic Liquids: Structure and Photochemical Reactions. Annual Review of Physical Chemistry, 2011, 62, 85-105.	10.8	310
5	Peptide-mediated intramolecular electron transfer: long-range distance dependence. Chemical Reviews, 1992, 92, 381-394.	47.7	273
6	Intermolecular Dynamics, Interactions, and Solvation in Ionic Liquids. Accounts of Chemical Research, 2007, 40, 1217-1227.	15.6	237
7	Fluorescence Probing of Temperature-Dependent Dynamics and Friction in Ionic Liquid Local Environmentsâ€. Journal of Physical Chemistry B, 2007, 111, 4963-4977.	2.6	166
8	Spectrum and Reactivity of the Solvated Electron in the Ionic Liquid Methyltributylammonium Bis(trifluoromethylsulfonyl)imideâ€. Journal of Physical Chemistry B, 2003, 107, 7261-7267.	2.6	160
9	Ultrafast dynamics of pyrrolidinium cation ionic liquids. Journal of Chemical Physics, 2005, 122, 184512.	3.0	160
10	What Makes Fluoroethylene Carbonate Different?. Journal of Physical Chemistry C, 2015, 119, 14954-14964.	3.1	159
11	Long-Range Electron Transfer Across Peptide Bridges:Â The Transition from Electron Superexchange to Hopping. Journal of the American Chemical Society, 2004, 126, 13888-13889.	13.7	155
12	The Physical Chemistry of Ionic Liquids. Journal of Physical Chemistry B, 2007, 111, 4639-4640.	2.6	155
13	Tetraalkylphosphonium Polyoxometalate Ionic Liquids:Â Novel, Organicâ^'Inorganic Hybrid Materialsâ€. Journal of Physical Chemistry B, 2007, 111, 4685-4692.	2.6	154
14	The distance dependence of intramolecular electron-transfer rates: importance of the nuclear factor. Journal of the American Chemical Society, 1988, 110, 635-637.	13.7	139
15	The LEAF picosecond pulse radiolysis facility at Brookhaven National Laboratory. Review of Scientific Instruments, 2004, 75, 4359-4366.	1.3	133
16	The Initial Stages of Radiation Damage in Ionic Liquids and Ionic Liquid-Based Extraction Systems. Journal of Physical Chemistry B, 2007, 111, 11786-11793.	2.6	124
17	Structure of 1-Alkyl-1-methylpyrrolidinium Bis(trifluoromethylsulfonyl)amide Ionic Liquids with Linear, Branched, and Cyclic Alkyl Groups. Journal of Physical Chemistry B, 2013, 117, 15328-15337.	2.6	121
18	Heavy Atom Substitution Effects in Non-Aromatic Ionic Liquids: Ultrafast Dynamics and Physical Properties. Journal of Physical Chemistry B, 2010, 114, 9400-9412.	2.6	116

#	Article	IF	Citations
19	Intermolecular Interactions and Dynamics of Room Temperature Ionic Liquids That Have Silyl- and Siloxy-Substituted Imidazolium Cationsâ€. Journal of Physical Chemistry B, 2007, 111, 4819-4829.	2.6	109
20	Nuclear Magnetic Resonance Study of the Dynamics of Imidazolium Ionic Liquids with â^'CH2Si(CH3)3vs â^'CH2C(CH3)3Substituentsâ€. Journal of Physical Chemistry B, 2007, 111, 4885-4893.	2.6	101
21	Radiation Induced Redox Reactions and Fragmentation of Constituent Ions in Ionic Liquids. 1. Anions. Journal of Physical Chemistry B, 2011, 115, 3872-3888.	2.6	97
22	Mechanism of the Formation of a Mn-Based CO₂ Reduction Catalyst Revealed by Pulse Radiolysis with Time-Resolved Infrared Detection. Journal of the American Chemical Society, 2014, 136, 5563-5566.	13.7	91
23	Pulse Radiolysis Study of the Reactions of Hydrogen Atoms in the Ionic Liquid Methyltributylammonium Bis[(trifluoromethyl)sulfonyl]imide. Journal of Physical Chemistry A, 2003, 107, 9794-9799.	2.5	89
24	A Dendrimer-Based Electron Antenna:Â Paired Electron-Transfer Reactions in Dendrimers with a 4,4â€˜-Bipyridine Core and Naphthalene Peripheral Groups. Journal of the American Chemical Society, 2002, 124, 8285-8289.	13.7	88
25	Charge Trapping in Imidazolium Ionic Liquids. Journal of Physical Chemistry B, 2009, 113, 5582-5592.	2.6	86
26	Efficient Generation of the Ligand Field Excited State of Tris-(2,2â€˜-bipyridine)-ruthenium(II) through Sequential Two-Photon Capture by [Ru(bpy)3]2+or Electron Capture by [Ru(bpy)3]3+. Journal of Physical Chemistry A, 2001, 105, 8117-8122.	2.5	81
27	Effects of functional group substitution on electron spectra and solvation dynamics in a family of ionic liquids. Radiation Physics and Chemistry, 2005, 72, 99-104.	2.8	81
28	Thermodynamics and kinetics of carbon dioxide binding to two stereoisomers of a cobalt(I) macrocycle in aqueous solution. Journal of the American Chemical Society, 1991, 113, 3361-3371.	13.7	78
29	Radiation Induced Redox Reactions and Fragmentation of Constituent Ions in Ionic Liquids. 2. Imidazolium Cations. Journal of Physical Chemistry B, 2011, 115, 3889-3902.	2.6	76
30	Distance dependence of intramolecular electron transfer across oligoprolines in [(bpy)2RuIIL.bul.-(Pro)n-CoIII(NH3)5]3+, n = 1-6: different effects for helical and nonhelical polyproline II structure. The Journal of Physical Chemistry, 1993, 97, 11456-11463.	2.9	75
31	Tetraalkylphosphonium polyoxometalates: electroactive, â€œtask-specificâ€•ionic liquids. Dalton Transactions, 2007, , 529-531.	3.3	74
32	Electron transfer across polypeptides. 6. Long-range electron transfer in osmium-ruthenium binuclear complexes bridged with oligoproline peptides. Journal of the American Chemical Society, 1990, 112, 7278-7286.	13.7	65
33	The Radiation Chemistry of Ionic Liquids: A Review. Solvent Extraction and Ion Exchange, 2014, 32, 563-583.	2.0	62
34	Long range electron transfer in helical polyproline II oligopeptides. Chemical Physics, 1993, 176, 589-600.	1.9	57
35	A Comparison of theÎ³-Radiolysis of TODGA and T(EH)DGA Using UHPLC-ESI-MS Analysis. Solvent Extraction and Ion Exchange, 2015, 33, 431-447.	2.0	57
36	De Novo Design of Protein Function:Â Predictable Structureâ^'Function Relationships in Synthetic Redox Proteins. Journal of the American Chemical Society, 1999, 121, 858-859.	13.7	56

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37	Pulse radiolysis and steady-state analyses of the reaction between hydroethidine and superoxide and other oxidants. Archives of Biochemistry and Biophysics, 2006, 456, 39-47.	3.0	55
38	Ionic Liquids and Ionizing Radiation: Reactivity of Highly Energetic Species. Journal of Physical Chemistry Letters, 2010, 1, 3225-3231.	4.6	55
39	Pulse radiolysis studies of melatonin and chloromelatonin. Journal of Photochemistry and Photobiology B: Biology, 1998, 42, 125-132.	3.8	53
40	Trialkylammoniododecaborates: Anions for Ionic Liquids with Potassium, Lithium and Protons as Cations. Chemistry - A European Journal, 2008, 14, 1918-1923.	3.3	53
41	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. Inorganic Chemistry, 1986, 25, 3318-3321.	4.0	51
42	Design and Characterization of A Synthetic Electron-Transfer Protein. Journal of the American Chemical Society, 2000, 122, 7999-8006.	13.7	51
43	Reactivity of Acid Generators for Chemically Amplified Resists with Low-Energy Electrons. Japanese Journal of Applied Physics, 2006, 45, L197-L200.	1.5	46
44	Recent Trends in Radiation Chemistry. , 2010, , .		46
45	Comparative Kinetic Analysis of Reversible Intermolecular Electron-Transfer Reactions between a Series of Pentaammineruthenium Complexes and Cytochromec. Inorganic Chemistry, 1996, 35, 1564-1570.	4.0	44
46	Ionic liquids and solids with paramagnetic anions. Physical Chemistry Chemical Physics, 2010, 12, 8919.	2.8	44
47	Photochemical Studies on Xanthurenic AcidÂ¶. Photochemistry and Photobiology, 2000, 72, 467.	2.5	44
48	Effects of Aromaticity in Cations and Their Functional Groups on the Low-Frequency Spectra and Physical Properties of Ionic Liquids. Journal of Physical Chemistry B, 2015, 119, 9173-9187.	2.6	42
49	pH and Driving Force Dependence of Intramolecular Oxyferryl Heme Reduction in Myoglobin. Journal of the American Chemical Society, 1997, 119, 4758-4764.	13.7	39
50	Radiation and Radical Chemistry of NO₃^{â€“}, HNO₃, and Dialkylphosphoric Acids in Room-Temperature Ionic Liquids. Journal of Physical Chemistry B, 2011, 115, 10927-10942.	2.6	39
51	Extraction of Tetra-Oxo Anions into a Hydrophobic, Ionic Liquid-Based Solvent without Concomitant Ion Exchange. Industrial & Engineering Chemistry Research, 2010, 49, 5863-5868.	3.7	38
52	Toward Radiation-Resistant Ionic Liquids. Radiation Stability of Sulfonyl Imide Anions. Journal of Physical Chemistry B, 2012, 116, 9043-9055.	2.6	37
53	Electron solvation dynamics and reactivity in ionic liquids observed by picosecond radiolysis techniques. Faraday Discussions, 2012, 154, 353-363.	3.2	36
54	Do TFSA Anions Slither? Pressure Exposes the Role of TFSA Conformational Exchange in Self-Diffusion. Journal of Physical Chemistry B, 2015, 119, 14756-14765.	2.6	36

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55	Formation of three-dimensional bicontinuous structures via molten salt dealloying studied in real-time by in situ synchrotron X-ray nano-tomography. Nature Communications, 2021, 12, 3441.	12.8	36
56	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. Journal of the American Chemical Society, 1989, 111, 1153-1154.	13.7	34
57	Convergence of spectroscopic and kinetic electron transfer parameters for mixed-valence binuclear dipyridylamide ruthenium ammine complexes. Coordination Chemistry Reviews, 2005, 249, 507-516.	18.8	34
58	Enzyme activity in dialkyl phosphate ionic liquids. Bioresource Technology, 2011, 102, 11200-11203.	9.6	34
59	Connecting Structural and Transport Properties of Ionic Liquids with Cationic Oligoether Chains. Journal of the Electrochemical Society, 2017, 164, H5247-H5262.	2.9	33
60	High-pressure pulse-radiolysis study of intramolecular and intermolecular reduction of cytochrome c by ruthenium(II) ammine complexes. Inorganic Chemistry, 1992, 31, 3986-3989.	4.0	32
61	Mechanistic Information from the First Volume Profile Analysis for a Reversible Intermolecular Electron-Transfer Reaction Involving Pentaammine(isonicotinamide)ruthenium and Cytochrome c. Inorganic Chemistry, 1994, 33, 4744-4749.	4.0	32
62	Radiation-Induced Fragmentation of Diamide Extraction Agents in Ionic Liquid Diluents. Journal of Physical Chemistry B, 2012, 116, 2234-2243.	2.6	32
63	Radiation Stability of Cations in Ionic Liquids. 2. Improved Radiation Resistance through Charge Delocalization in 1-Benzylpyridinium. Journal of Physical Chemistry B, 2013, 117, 14385-14399.	2.6	32
64	A Comparison of Electron-Transfer Dynamics in Ionic Liquids and Neutral Solvents. Journal of Physical Chemistry C, 2012, 116, 5197-5208.	3.1	31
65	cis-Bis(bipyridine)ruthenium Imidazole Derivatives:Â A Spectroscopic, Kinetic, and Structural Study. Inorganic Chemistry, 1996, 35, 7241-7245.	4.0	30
66	Ionic Liquids Based on Polynitrile Anions: Hydrophobicity, Low Proton Affinity, and High Radiolytic Resistance Combined. Journal of Physical Chemistry B, 2013, 117, 7084-7094.	2.6	30
67	Synthesis, characterization and radiolytic properties of bis(oxalato)borate containing ionic liquids. Radiation Physics and Chemistry, 2009, 78, 1120-1125.	2.8	28
68	Interfacial Speciation Determines Interfacial Chemistry: Xâ€rayâ€Induced Lithium Fluoride Formation from Waterâ€inâ€salt Electrolytes on Solid Surfaces. Angewandte Chemie - International Edition, 2020, 59, 23180-23187.	13.8	28
69	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. Journal of the American Chemical Society, 1994, 116, 8396-8397.	13.7	26
70	Application of External-Cavity Quantum Cascade Infrared Lasers to Nanosecond Time-Resolved Infrared Spectroscopy of Condensed-Phase Samples following Pulse Radiolysis. Applied Spectroscopy, 2010, 64, 563-570.	2.2	26
71	Pulse Radiolysis Studies of Dendritic Macromolecules with Biphenyl Peripheral Groups and a Ruthenium Tris-bipyridine Core. Journal of the American Chemical Society, 2001, 123, 12832-12836.	13.7	25
72	Dynamics of Fast Reactions in Ionic Liquids. ACS Symposium Series, 2005, , 102-116.	0.5	25

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73	Recombination of Photogenerated Lophyl Radicals in Imidazoliumâ€Based Ionic Liquids. ChemPhysChem, 2009, 10, 3112-3118.	2.1	24
74	Development of nanosecond time-resolved infrared detection at the LEAF pulse radiolysis facility. Review of Scientific Instruments, 2015, 86, 044102.	1.3	24
75	Investigation of Dynamics in BMIM TFSA Ionic Liquid through Variable Temperature and Pressure NMR Relaxometry and Diffusometry. Journal of the Electrochemical Society, 2017, 164, H5189-H5196.	2.9	24
76	Connections between the Speciation and Solubility of Ni(II) and Co(II) in Molten ZnCl₂. Journal of Physical Chemistry B, 2020, 124, 1253-1258.	2.6	24
77	Do Main Chain Hydrogen Bonds Create Dominant Electron Transfer Pathways? An Investigation in Designed Proteinsâ€. Journal of Physical Chemistry B, 2003, 107, 7288-7292.	2.6	23
78	Highâ€pressure pulse radiolysis. Modification of an optical cell for 2â€MeV electron pulse radiolysis at pressures up to 200 MPa. Review of Scientific Instruments, 1992, 63, 3224-3225.	1.3	22
79	The role of organic solvent radical cations in separations ligand degradation. Journal of Radioanalytical and Nuclear Chemistry, 2016, 307, 2445-2449.	1.5	22
80	Investigating corrosion behavior of Ni and Ni-20Cr in molten ZnCl2. Corrosion Science, 2021, 179, 109105.	6.6	22
81	Radiation Chemistry of Methyltert-Butyl Ether in Aqueous Solution. Environmental Science & Technology, 2004, 38, 3994-4001.	10.0	21
82	Importance of Ionic Liquid Solvation Dynamics to Their Applications in Advanced Devices and Systems. Journal of Physical Chemistry Letters, 2010, 1, 1629-1630.	4.6	21
83	Photo- and Radiation-Chemistry of Halide Anions in Ionic Liquids. Journal of Physical Chemistry A, 2013, 117, 5742-5756.	2.5	21
84	Improving the radiation hardness of graphene field effect transistors. Applied Physics Letters, 2016, 109, .	3.3	21
85	Photocurrent Generation in Layer-By-Layer Assembled Dendrimers with Ruthenium Tris-bipyridine Peripheral Groups and a Viologen-like Core. Langmuir, 2007, 23, 10807-10815.	3.5	20
86	Structural analysis of ionic liquids with symmetric and asymmetric fluorinated anions. Journal of Chemical Physics, 2019, 151, 074504.	3.0	20
87	A Holistic Approach for Elucidating Local Structure, Dynamics, and Speciation in Molten Salts with High Structural Disorder. Journal of the American Chemical Society, 2021, 143, 15298-15308.	13.7	20
88	Rate of Intramolecular Reduction of Oxyferryl Iron in Horse Heart Myoglobin. Journal of the American Chemical Society, 1994, 116, 3169-3170.	13.7	19
89	Mechanistic Information from Pressure Acceleration of Hydride Formation via Proton Binding to a Cobalt(I) Macrocycle. Inorganic Chemistry, 2002, 41, 1579-1583.	4.0	19
90	Conformational Analysis of the Electron-Transfer Kinetics across Oligoproline Peptides UsingN,N-Dimethyl-1,4-benzenediamine Donors and Pyrene-1-sulfonyl Acceptorsâ€. Journal of Physical Chemistry B, 2007, 111, 6878-6886.	2.6	19

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91	High-Field Magic Angle Spinning Dynamic Nuclear Polarization Using Radicals Created by Î³-Irradiation. Journal of Physical Chemistry Letters, 2019, 10, 4770-4776.	4.6	19
92	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. Corrosion Science, 2022, 195, 109962.	6.6	19
93	Back-bonding effects of osmium(III): crystal structure of (.mu.-pyrazine)decaamminediosmium(III) chloride dihydrate. Inorganic Chemistry, 1985, 24, 3969-3971.	4.0	18
94	Mechanistic Information from the First Volume Profile Analysis for Intramolecular Electron-Transfer Reactions:Â Tetraammineâ^'Ruthenium(Ligand) Complexes of Cytochromec. Inorganic Chemistry, 1998, 37, 6129-6135.	4.0	18
95	Enantioselectivities in Electron-Transfer and Excited State Quenching Reactions of a Chiral Ruthenium Complex Possessing a Helical Structure. Journal of Physical Chemistry A, 1999, 103, 5645-5654.	2.5	18
96	Enthalpies of reaction of pentaammineruthenium(II) complexes. Inorganic Chemistry, 1984, 23, 2997-3001.	4.0	17
97	Effect of Surface Charges on the Rates of Intermolecular Electron-Transfer between de Novo Designed Metalloproteinsâ€. Biochemistry, 2001, 40, 12186-12192.	2.5	17
98	Substituted tetraammineruthenium cytochrome c derivatives: Chemistry and electron-transfer reactions. Inorganic Chemistry, 1995, 34, 3301-3309.	4.0	16
99	Dependence of Intramolecular Electron-Transfer Rates on Driving Force, pH, and Temperature in Ammineruthenium-Modified Ferrocytochromesc. Journal of Physical Chemistry B, 1997, 101, 687-693.	2.6	16
100	Photoinduced Bimolecular Electron Transfer in Ionic Liquids: Cationic Electron Donors. Journal of Physical Chemistry B, 2018, 122, 2379-2388.	2.6	15
101	Spectroscopic Assessment of Intra- and Intermolecular Hydrogen Bonding in Ether-Functionalized Imidazolium Ionic Liquids. Journal of Physical Chemistry A, 2019, 123, 8370-8376.	2.5	15
102	Determining oxidation states of transition metals in molten salt corrosion using electron energy loss spectroscopy. Scripta Materialia, 2021, 197, 113790.	5.2	15
103	Arene-to-alkyne linkage isomerizations of diphenylacetylene on pentaammineosmium. Inorganic Chemistry, 1989, 28, 2411-2413.	4.0	14
104	Ruthenium Bisbipyridine Complexes of Horse Heart Cytochrome c:â€‰ Characterization and Comparative Intramolecular Electron-Transfer Rates Determined by Pulse Radiolysis and Flash Photolysis. Inorganic Chemistry, 2000, 39, 2321-2329.	4.0	14
105	Reactions of Charged Species in Supercritical Xenon as Studied by Pulse Radiolysisâ€. Journal of Physical Chemistry B, 2003, 107, 7281-7287.	2.6	14
106	The Chemistry of Separations Ligand Degradation by Organic Radical Cations. Procedia Chemistry, 2016, 21, 61-65.	0.7	14
107	Radiation-Assisted Formation of Metal Nanoparticles in Molten Salts. Journal of Physical Chemistry Letters, 2021, 12, 157-164.	4.6	14
108	Ultrafast Pulse Radiolysis Methods. , 2010, , 121-160.		14

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109	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 bis[2,2-dimethyl-7-[(4-nitrophenyl)imino]-3,5,7-octanetrionato]dicopper(II)-bis(benzene). Inorganic Chemistry, 1983, 22, 1667-1671.	4.0	13
110	Intramolecular Electron Transfer in Pentaammineruthenium(III)-Modified Cobaltocytochromec. Inorganic Chemistry, 1996, 35, 5893-5901.	4.0	13
111	Thermodynamic and Structural Effects of a Single Backbone Hydrogen Bond Deletion in a Metal-Assembled Helical Bundle Protein. Journal of Physical Chemistry B, 1998, 102, 9975-9980.	2.6	13
112	Photo-detrapping of solvated electrons in an ionic liquid. Radiation Physics and Chemistry, 2009, 78, 1129-1132.	2.8	13
113	Binary Ionic Liquid Mixtures for Supercapacitor Applications. ECS Transactions, 2014, 64, 57-69.	0.5	13
114	Electron-Transfer Dynamics for a Donorâ€“Bridgeâ€“Acceptor Complex in Ionic Liquids. Journal of Physical Chemistry B, 2015, 119, 11336-11345.	2.6	13
115	Ultrafast transient absorption spectrum of the room temperature Ionic liquid 1-hexyl-3-methylimidazolium bromide: Confounding effects of photo-degradation. Radiation Physics and Chemistry, 2015, 117, 78-82.	2.8	13
116	In Situ Probing of Ion Ordering at an Electrified Ionic Liquid/Au Interface. Advanced Materials, 2017, 29, 1606357.	21.0	13
117	Electrochemistry: general discussion. Faraday Discussions, 2018, 206, 405-426.	3.2	13
118	Magic angle spinning dynamic nuclear polarization solid-state NMR spectroscopy of Î³-irradiated molecular organic solids. Solid State Nuclear Magnetic Resonance, 2022, 119, 101785.	2.3	13
119	Accelerators and Other Sources for the Study of Radiation Chemistry. Advances in Chemistry Series, 1998, , 35-50.	0.6	12
120	Radiation Chemistry of Ionic Liquids: Reactivity of Primary Species. ACS Symposium Series, 2003, , 381-396.	0.5	12
121	Radiation Stability of Cations in Ionic Liquids. 5. Task-Specific Ionic Liquids Consisting of Biocompatible Cations and the Puzzle of Radiation Hypersensitivity. Journal of Physical Chemistry B, 2014, 118, 10477-10492.	2.6	12
122	Molecular and electronic structure of the electron-transfer probe analog [trans-(NH3)4Ru(imidazole)(isonicotinamide)](CF3CO2)3.cntdot.2-propanol. Inorganic Chemistry, 1992, 31, 3179-3181.	4.0	11
123	Kinetic Salt Effects on an Ionic Reaction in Ionic Liquid/Methanol Mixtures â€"Viscosity and Coulombic Screening Effectsâ€". Chemistry Letters, 2009, 38, 236-237.	1.3	11
124	The Radiation Chemistry of Ionic Liquids and its Implications for their Use in Nuclear Fuel Processing. ACS Symposium Series, 2010, , 119-134.	0.5	11
125	Cyclic phosphonium ionic liquids. Beilstein Journal of Organic Chemistry, 2014, 10, 271-275.	2.2	11
126	Effects of aromaticity in cations and their functional groups on the temperature dependence of low-frequency spectrum. Journal of Chemical Physics, 2018, 148, 193805.	3.0	11

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127	Exploring the Use of Ionic Liquid Mixtures to Enhance the Performance of Dicationic Ionic Liquids. Journal of the Electrochemical Society, 2017, 164, H5150-H5159.	2.9	9
128	On the nature of macroradicals formed upon radiolysis of aqueous poly(N-vinylpyrrolidone) solutions. Radiation Physics and Chemistry, 2020, 174, 108900.	2.8	9
129	Interfacial Speciation Determines Interfacial Chemistry: Xâ€rayâ€Induced Lithium Fluoride Formation from Waterâ€inâ€salt Electrolytes on Solid Surfaces. Angewandte Chemie, 2020, 132, 23380-23387.	2.0	9
130	Design and performance of high-temperature furnace and cell holder for in situ spectroscopic, electrochemical, and radiolytic investigations of molten salts. Review of Scientific Instruments, 2020, 91, 083105.	1.3	9
131	Copper(III) Pyrophosphate Complexes in Aqueous Solution. A Pulse Radiolysis Study at Ambient and High Pressure. Journal of Physical Chemistry A, 1997, 101, 5131-5136.	2.5	8
132	Structure and dynamics of ionic liquids: general discussion. Faraday Discussions, 2018, 206, 291-337.	3.2	8
133	Phase behaviour and thermodynamics: general discussion. Faraday Discussions, 2017, 206, 113-139.	3.2	8
134	Uphill electron transfer in pentaammineruthenium(III)-modified ferrocytochrome c: Rates, thermodynamics, and the mediating role of the ruthenium moiety. Inorganic Chemistry, 1995, 34, 3998-4000.	4.0	7
135	Site-Dependent Stereoselective Binding of Ruthenium Aquobipyridine Complexes to Histidine Side Chains in Horse Heart Cytochromec. Journal of the American Chemical Society, 1998, 120, 12970-12971.	13.7	7
136	Radiation and Radical Chemistry of Ionic Liquids for Energy Applications. ACS Symposium Series, 2017, , 251-272.	0.5	7
137	Versatile compact heater design forin situnano-tomography by transmission X-ray microscopy. Journal of Synchrotron Radiation, 2020, 27, 746-752.	2.4	7
138	Exploring the Effect of Structural Modification on the Physical Properties of Various Ionic Liquids. ECS Transactions, 2010, 33, 659-665.	0.5	6
139	Enthalpy of formation of nitrosylpentaammineruthenium(II) from nitrosium (aq) and aquopentaammineruthenium(II). Inorganic Chemistry, 1986, 25, 1479-1481.	4.0	5
140	Photochemistry and Radiation Chemistry: A Perspective. Advances in Chemistry Series, 1998, , 1-4.	0.6	5
141	Accelerators for ultrafast phenomena. Studies in Physical and Theoretical Chemistry, 2001, 87, 21-35.	0.0	5
142	Probing the Physical Properties, Synthesis and Cellulose Dissolution Ability of Dialkyl Phosphate Ionic Liquids. Phosphorus, Sulfur and Silicon and the Related Elements, 2015, 190, 891-895.	1.6	5
143	Pulse Radiolysis and Computational Studies on a Pyrrolidinium Dicyanamide Ionic Liquid: Detection of the Dimer Radical Anion. Journal of Physical Chemistry A, 2018, 122, 3148-3155.	2.5	5
144	Electron Transfer Kinetics of Bifunctional Redox Protein Maquettes. Advances in Chemistry Series, 1998, , 145-159.	0.6	4

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145	Gamma radiation-induced defects in KCl, MgCl2, and ZnCl2 salts at room temperature. Physical Chemistry Chemical Physics, 2021, 23, 10384-10394.	2.8	4
146	Radiation-induced reaction kinetics of Zn²⁺ with e_S^{â^'} and Cl₂Ë™^{â^'} in Molten LiClâ€“KCl eutectic at 400â€“600 Â°C. Physical Chemistry Chemical Physics, 2022, 24, 25088-25098.	2.8	4
147	Intramolecular Electron Transfer in Tetraammine(L)ruthenium(III)-Modified Manganocytochromesc. Inorganic Chemistry, 1998, 37, 1124-1126.	4.0	3
148	Radiation Chemistry of Ionic Liquids. ECS Proceedings Volumes, 2004, 2004-24, 802-813.	0.1	3
149	Radiation hardened graphene field effect transistors. , 2016, , .		3
150	Radiation Chemistry and Photochemistry of Ionic Liquids. , 2010, , 265-287.		3
151	Radiation Induced Reactions and Fragmentation in Room Temperature Ionic Liquids. , 2014, , 453-485.		3
152	Dynamics of Fast Reactions in Ionic Liquids. ChemInform, 2005, 36, no.	0.0	2
153	Photochemical Studies on Xanthurenic AcidÂ¶. Photochemistry and Photobiology, 2000, 72, 467-471.	2.5	2
154	High Enantioselectivity in the Electron Transfer Reaction between a Ru(II) Complex of Menbpy Anion Radical, [Ru(menbpy)3]+[menbpy = 4,4â€²-di{(1R,2S,5R)-(â^')-menthoxycarbonyl}-2,2â€²-bipyridine] and [Co(acac)3]: A Pulse Radiolysis Study. Chemistry Letters, 1998, 27, 1259-1260.	1.3	1
155	The Effect of Lengthening Cation Ether Tails on Ionic Liquid Properties. ECS Transactions, 2016, 75, 215-232.	0.5	1
156	On the Mechanism of the Steady-State Gamma Radiolysis-Induced Scissions of the Phenyl-Vinyl Polyester-Based Resins. Frontiers in Chemistry, 2021, 9, 803347.	3.6	1
157	Transport Properties of Ionic Liquid Mixtures Containing Heterodications. ECS Transactions, 2016, 75, 555-565.	0.5	0
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