

Makoto Yamaguchi

List of Publications by Year in descending order

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40
papers

1,132
citations

567281

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377865

34
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all docs

40
docs citations

40
times ranked

1489
citing authors

#	ARTICLE	IF	CITATIONS
1	DFT Study on Side Chain Detachment of Perfluorosulfonic Acid Ionomers by Radical-Assisted Nucleophilic Attack of Water. <i>Polymer Degradation and Stability</i> , 2022, 196, 109832.	5.8	4
2	DFT Study on the Chemical Degradation Mechanism of Perfluorobis(sulfonyl)imide Sulfonic Acid Ionomer Membranes. <i>Journal of Physical Chemistry C</i> , 2021, 125, 1929-1939.	3.1	5
3	Thermal desorption and pyrolysis direct analysis in real time mass spectrometry of Nafion membrane. <i>Journal of Applied Polymer Science</i> , 2021, 138, 50172.	2.6	6
4	Size and shape of Nafion particles in water after high-temperature treatment. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2019, 57, 813-818.	2.1	8
5	Gamma radiolysis of perfluorosulfonic acid ionomers and their side chain model compounds in water. <i>Radiation Physics and Chemistry</i> , 2019, 159, 89-94.	2.8	4
6	DFT Studies of Perfluorosulfonic Acid Ionomer Degradation in Fuel Cells. <i>Journal of Physical Chemistry C</i> , 2018, 122, 20135-20143.	3.1	15
7	DFT calculation of isotropic hyperfine coupling constants of spin adducts of 5,5-dimethyl-1-pyrroline-N-oxide in benzene and water. <i>Computational and Theoretical Chemistry</i> , 2017, 1104, 24-31.	2.5	2
8	Development of novel three-dimensional reconstruction method for porous media for polymer electrolyte fuel cells using focused ion beam-scanning electron microscope tomography. <i>Journal of Power Sources</i> , 2017, 347, 108-113.	7.8	40
9	Ab initio molecular dynamics simulation of infrared absorption spectra of crystalline sulfuric acid mono- and tetra-hydrates. <i>Computational and Theoretical Chemistry</i> , 2016, 1089, 54-58.	2.5	4
10	Prototype Dithiolene Radical Anion ($S_2CH_2CH_2S_2$) As Derived from Electron Attachment to 1,4-Dithiane: Experimental and Computational Studies on Electronic Structure. <i>Journal of Physical Chemistry A</i> , 2016, 120, 3570-3577.	2.5	4
11	Ab Initio Molecular Dynamics Simulation of Infrared Absorption Spectra of H_3O^+ and $H_5O_2^+$ in Nonaqueous Solutions of Trifluoromethanesulfonic Acid Hydrates. <i>Journal of Solution Chemistry</i> , 2016, 45, 1548-1559.	1.2	1
12	Density functional theory calculation of μ_2 -oxo and μ_2 -hydroxo bridged iron(III) aqua dimer complexes in perfluorinated sulfonic acid ionomer membranes. <i>Computational and Theoretical Chemistry</i> , 2015, 1071, 61-67.	2.5	3
13	Dispersion of Rod-like Particles of Nafion in Salt-Free Water/1-Propanol and Water/Ethanol Solutions. <i>Journal of Physical Chemistry B</i> , 2014, 118, 141210091239007.	2.6	40
14	Calculation of infrared absorption intensities of combination bands of cyclic acid dimers by vibrational second order perturbation theory. <i>Computational and Theoretical Chemistry</i> , 2013, 1022, 70-74.	2.5	2
15	Vibrational Analysis of Side Chain Model Compounds of Perfluorinated Alkyl Sulfonic Acid Ionomers. <i>Journal of Physical Chemistry A</i> , 2012, 116, 10850-10863.	2.5	14
16	Hemibonding of Hydroxyl Radical and Halide Anion in Aqueous Solution. <i>Journal of Physical Chemistry A</i> , 2011, 115, 14620-14628.	2.5	30
17	Multireference Configuration Interaction Study of the Vibronic Transitions and Photodissociation of Vinyl Bromide and Vinyl Chloride Radical Cations in the Second Excited State. <i>Journal of Physical Chemistry A</i> , 2010, 114, 7937-7944.	2.5	2
18	An approach of NMR relaxometry for understanding water in saturated compacted bentonite. <i>Physics and Chemistry of the Earth</i> , 2008, 33, S169-S176.	2.9	29

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19	Multireference Configuration Interaction Calculation of the $\tilde{X}^1\Sigma^+$ Transition of Halogen- and Methyl-Substituted Vinyloxy Radicals. <i>Journal of Physical Chemistry A</i> , 2006, 110, 12419-12426.	2.5	8
20	Dye-sensitized solar cells with ionic gel electrolytes prepared from imidazolium salts and agarose. <i>Comptes Rendus Chimie</i> , 2006, 9, 611-616.	0.5	39
21	Imaging of water distribution in thermally fractured granites by SPRITE. <i>Magnetic Resonance Imaging</i> , 2005, 23, 325-327.	1.8	2
22	A new alkyl-imidazole polymer prepared as an ionic polymer electrolyte by in situ polymerization of dye sensitized solar cells. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2004, 164, 81-85.	3.9	78
23	Network structure of B_2O_3-PbO and $B_2O_3-PbO-PbBr_2$ glasses analyzed by pulsed neutron diffraction and Raman spectroscopy. <i>Journal of Alloys and Compounds</i> , 2004, 377, 167-173.	5.5	35
24	Synthesis, characterization and some adsorption properties of TMMA chelating resin. <i>Journal of Solid State Chemistry</i> , 2003, 171, 353-357.	2.9	9
25	Application of Carbon Nanotubes to Counter Electrodes of Dye-sensitized Solar Cells. <i>Chemistry Letters</i> , 2003, 32, 28-29.	1.3	463
26	Laser-induced fluorescence of the CH_2CFO ($X=F,Cl$) radicals. <i>Journal of Chemical Physics</i> , 2002, 116, 6961-6972.	3.0	9
27	Anion Intercalation and Anion Exchange in Bismuth Compounds. <i>Materials Research Society Symposia Proceedings</i> , 2002, 755, 1.	0.1	0
28	Laser-Induced Fluorescence of the $CHClCHO$ Radical and Reaction of Oxygen Atoms with Halogenated Ethylenes. <i>Journal of Physical Chemistry A</i> , 2001, 105, 7559-7568.	2.5	10
29	A new family of anion exchangers: mixed hydroxide carbonates of Bi^{3+} and divalent metals showing high selectivity for SeO_3^{2-} . <i>Materials Research Bulletin</i> , 2000, 35, 2109-2121.	5.2	15
30	Characterization of Ag/Al_2O_3 de- NO_x catalysts by probing surface acidity and basicity of the supporting substrate. <i>Physical Chemistry Chemical Physics</i> , 2000, 2, 3007-3015.	2.8	32
31	Laser-induced fluorescence of the CD_2CFO radical. <i>Journal of Chemical Physics</i> , 1999, 111, 6356-6362.	3.0	8
32	Selective catalytic reduction of NO over Ag/Al_2O_3 : Inhibition effect by surface nitrate. <i>Studies in Surface Science and Catalysis</i> , 1999, , 371-374.	1.5	11
33	Analysis of laser-induced fluorescence spectra of the $(\tilde{a}^3)\tilde{a}^3$ transition with calculated Franck-Condon factors of CH_2CFO . <i>Chemical Physics Letters</i> , 1998, 298, 93-100.	2.6	6
34	Decomposition of adsorbed nitromethane on $[\gamma]$ -alumina. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1997, 93, 3581-3586.	1.7	38
35	A CASSCF study of photochemical cyclization of the first excited \tilde{A}^1 $2B_1$ state of the allyl radical. <i>Computational and Theoretical Chemistry</i> , 1996, 365, 143-149.	1.5	19
36	A CASSCF study on potential energy curves of vinyloxy radical in excited states. <i>Chemical Physics Letters</i> , 1994, 221, 531-536.	2.6	36

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37	Formation of the radical anions of thiocarbonyl compounds by electron attachment to organic sulfides in glassy matrices. <i>International Journal of Radiation Applications and Instrumentation Nuclear Tracks and Radiation Measurements</i> , 1990, 36, 791-799.	0.0	1
38	Electronic structure of vinylthio radical (CH ₂ CHS): A theoretical study. <i>Journal of Chemical Physics</i> , 1990, 93, 4223-4229.	3.0	13
39	Calculation of hyperfine coupling constant by symmetry adapted cluster expansion configuration interaction theory. II. Anisotropic constants. <i>Journal of Chemical Physics</i> , 1990, 93, 7284-7292.	3.0	19
40	Vibrational analysis and calculation of Franck-Condon factors for the vinoxy radical $X^1\dot{\Sigma}^+$ and $B^1\Sigma^+$ states. <i>Journal of Chemical Physics</i> , 1990, 93, 4211-4222.	3.0	68