

Makoto Yamaguchi

List of Publications by Year in descending order

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40
papers

1,132
citations

567281

15
h-index

377865

34
g-index

40
all docs

40
docs citations

40
times ranked

1489
citing authors

#	ARTICLE	IF	CITATIONS
1	Application of Carbon Nanotubes to Counter Electrodes of Dye-sensitized Solar Cells. <i>Chemistry Letters</i> , 2003, 32, 28-29.	1.3	463
2	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
3	Vibrational analysis and calculation of Franck-Condon factors for the vinoxy radical $\dot{X}f(2A^{\ominus})$ and $B\dot{I}f(2A^{\ominus})$ states. <i>Journal of Chemical Physics</i> , 1990, 93, 4211-4222.	3.0	68
4	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
5	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
6	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
7	Decomposition of adsorbed nitromethane on $[\gamma]$ -alumina. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1997, 93, 3581-3586.	1.7	38
8	A CASSCF study on potential energy curves of vinoxy radical in excited states. <i>Chemical Physics Letters</i> , 1994, 221, 531-536.	2.6	36
9	Network structure of $B_2O_3\text{-}PbO$ and $B_2O_3\text{-}PbO\text{-}PbBr_2$ glasses analyzed by pulsed neutron diffraction and Raman spectroscopy. <i>Journal of Alloys and Compounds</i> , 2004, 377, 167-173.	5.5	35
10	Characterization of Ag/Al ₂ O 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
11	Hemibonding of Hydroxyl Radical and Halide Anion in Aqueous Solution. <i>Journal of Physical Chemistry A</i> , 2011, 115, 14620-14628.	2.5	30
12	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
13	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
14	A CASSCF study of photochemical cyclization of the first excited $\tilde{A}f 2B_1$ state of the allyl radical. <i>Computational and Theoretical Chemistry</i> , 1996, 365, 143-149.	1.5	19
15	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
16	DFT Studies of Perfluorosulfonic Acid Ionomer Degradation in Fuel Cells. <i>Journal of Physical Chemistry C</i> , 2018, 122, 20135-20143.	3.1	15
17	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
18	Electronic structure of vinylthio radical (CH ₂ CHS): A theoretical study. <i>Journal of Chemical Physics</i> , 1990, 93, 4223-4229.	3.0	13

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19	Selective catalytic reduction of NO over Ag/Al ₂ O ₃ : Inhibition effect by surface nitrate. <i>Studies in Surface Science and Catalysis</i> , 1999, , 371-374.	1.5	11
20	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
21	Laser-induced fluorescence of the CHXCF ₂ (X=F,Cl) radicals. <i>Journal of Chemical Physics</i> , 2002, 116, 6961-6972.	3.0	9
22	Synthesis, characterization and some adsorption properties of TMMA chelating resin. <i>Journal of Solid State Chemistry</i> , 2003, 171, 353-357.	2.9	9
23	Laser-induced fluorescence of the CD ₂ CF ₂ radical. <i>Journal of Chemical Physics</i> , 1999, 111, 6356-6362.	3.0	8
24	Multireference Configuration Interaction Calculation of the B ₁ ² A ₁ ← A ₁ Transition of Halogen- and Methyl-Substituted Vinyloxy Radicals. <i>Journal of Physical Chemistry A</i> , 2006, 110, 12419-12426.	2.5	8
25	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
26	Analysis of laser-induced fluorescence spectra of the (π ³) ← (π ³) transition with calculated Franck-Condon factors of CH ₂ CF ₂ . <i>Chemical Physics Letters</i> , 1998, 298, 93-100.	2.6	6
27	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
28	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
29	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
30	Prototype Dithiolene Radical Anion (S ₂ CH ₂ CH ₂ S 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
31	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
32	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
33	Density functional theory calculation of 1/4-oxo and 1/4-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
34	Imaging of water distribution in thermally fractured granites by SPRITE. <i>Magnetic Resonance Imaging</i> , 2005, 23, 325-327.	1.8	2
35	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
36	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

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37	DFT calculation of isotropic hyperfine coupling constants of spin adducts of 5,5-dimethyl-1-pyrroline-N-oxide in benzene and water. Computational and Theoretical Chemistry, 2017, 1104, 24-31.	2.5	2
38	Formation of the radical anions of thiocarbonyl compounds by electron attachment to organic sulfides in glassy matrices. International Journal of Radiation Applications and Instrumentation Nuclear Tracks and Radiation Measurements, 1990, 36, 791-799.	0.0	1
39	Ab Initio Molecular Dynamics Simulation of Infrared Absorption Spectra of H ₃ O ⁺ and H ₅ O ²⁺ in Nonaqueous Solutions of Trifluoromethanesulfonic Acid Hydrates. Journal of Solution Chemistry, 2016, 45, 1548-1559.	1.2	1
40	Anion Intercalation and Anion Exchange in Bismuth Compounds. Materials Research Society Symposia Proceedings, 2002, 755, 1.	0.1	0