Isao Tsuyumoto

List of Publications by Year
in descending order

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50 papers	691 citations	471509 17 h-index	580821 25 g-index
50 all docs	50 docs citations	50 times ranked	638 citing authors

#	Article	IF	Citations
1	Observation of the Dynamic and Collective Behavior of Surfactant Molecules at a Water/Nitrobenzene Interface by a Time-Resolved Quasi-Elastic Laser-Scattering Method. Journal of Physical Chemistry B, 1998, 102, 10284-10287.	2.6	53
2	Monitoring of Molecular Collective Behavior at a Liquid/Liquid Interface by a Time-Resolved Quasi-Elastic Laser Scattering Method. Journal of Physical Chemistry A, 1997, 101, 4163-4166.	2.5	50
3	Role of the Liquid/Liquid Interface in a Phase-Transfer Catalytic Reaction As Investigated by in Situ Measurements Using the Quasi-Elastic Laser Scattering Method. Langmuir, 2000, 16, 6597-6600.	3.5	45
4	Density Estimation of Liquid/Liquid Interfacial Regions Using a Quasi-Elastic Laser Scattering Method. Journal of Physical Chemistry B, 1998, 102, 2684-2687.	2.6	41
5	Humidity sensor using potassium hexagonal tungsten bronze synthesized from peroxo-pokytungstic acid. Sensors and Actuators B: Chemical, 1996, 30, 95-99.	7.8	32
6	Hexagonal tungsten bronze synthesized from potassium peroxo-polytungstate and its electrical properties. Solid State Ionics, 1993, 59, 211-216.	2.7	29
7	Ultrafast Charge Transfer at TiO2/SCN- (aq) Interfaces Investigated by Femtosecond Transient Reflecting Grating Method. Journal of Physical Chemistry B, 1999, 103, 5984-5987.	2.6	29
8	X-ray Fluorescence Analysis of Hexavalent Chromium Using KÎ² Satellite Peak Observed as Counterpart of X-ray Absorption Near-Edge Structure Pre-Edge Peak. Analytical Chemistry, 2011, 83, 7566-7569.	6.5	25
9	Preparation of highly concentrated aqueous solution of sodium borate. Inorganic Chemistry Communication, 2007, 10, 20-22.	3.9	23
10	Flameâ€retardant rigid polyurethane foams prepared with amorphous sodium polyborate. Journal of Applied Polymer Science, 2011, 122, 1707-1711.	2.6	23
11	Monitoring of molecular behavior of a chemical oscillation system at a liquid/liquid interface using a time-resolved quasi-elastic laser scattering method. Electrochimica Acta, 1998, 44, 165-169.	5.2	21
12	Molecular Dynamics of Auramine O in Low-Viscosity Solutions as Investigated by an Ultrafast Lensing Effect. Journal of Physical Chemistry A, 1999, 103, 7575-7579.	2.5	21
13	Nanosized Tetragonal BaTiO3 Powders Synthesized by a New Peroxo-Precursor Decomposition Method. Chemistry of Materials, 2010, 22, 3015-3020.	6.7	21
14	Nonstoichiometric orthorhombic titanium oxide, TiO2â^'Î´ and its thermochromic properties. Materials Research Bulletin, 2004, 39, 1737-1744.	5.2	19
15	Thermochromism of vanadiumâ€“titanium oxide prepared from peroxovanadate and peroxotitanate. Journal of Materials Science, 2008, 43, 985-988.	3.7	19
16	Highly flame retardant coating consisting of starch and amorphous sodium polyborate. Journal of Materials Science, 2011, 46, 5371-5377.	3.7	19
17	Humidity sensor using potassium hexagonal tungsten bronze synthesized from peroxo-polytungstic acid and its resistivity change mechanism. Materials Research Bulletin, 1996, 31, 17-28.	5.2	17
18	Thermoelectric Power in Nonstoichiometric Orthorhombic Titanium Oxides. Journal of the American Ceramic Society, 2006, 89, 060427083300013-???.	3.8	17

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19	Observation of One Process in a Phase Transfer Catalytic Reaction at a Liquid/Liquid Interface by Using the Quasi-Elastic Laser Scattering Method. Journal of Physical Chemistry B, 1999, 103, 4663-4665.	2.6	16
20	New orthorhombic titanium oxide, TiO1.94. Journal of Materials Science Letters, 2000, 19, 2075-2076.	0.5	15
21	Observation of Dynamic Molecular Behavior in a Phase Transfer Catalytic Reaction at a Liquid/Liquid Interface by Using the Time-Resolved Quasi-Elastic Laser Scattering Method. Journal of Physical Chemistry B, 2000, 104, 4699-4702.	2.6	13
22	Development of Fire Resistant Laminated Wood Using Concentrated Sodium Polyborate Aqueous Solution. Journal of Wood Chemistry and Technology, 2009, 29, 277-285.	1.7	13
23	Preparation of nanocrystalline perovskite KNbO3 by peroxo-precursor decomposition method. Materials Research Bulletin, 2010, 45, 1899-1902.	5.2	10
24	Nanosizedâ€Łayered LiVO‹sub›2‹/sub› Prepared from Peroxoâ€Polyvanadic Acid and Its Electrochemical Properties. Journal of the American Ceramic Society, 2014, 97, 3374-3377.	3.8	10
25	A High-Performance and Simplified Quasi-Elastic Laser Scattering Method Using Homodyne Detection in Beam Divergence. Analytical Chemistry, 2001, 73, 2366-2368.	6.5	9
26	Thermochromism of titaniumâ€“vanadium oxide thin films prepared from peroxotitanate and peroxovanadate solutions. Solid State Ionics, 2008, 179, 1227-1229.	2.7	9
27	Synthesis and lithium insertion properties of ramsdellite LixTiO2 anode materials. Materials Research Bulletin, 2015, 70, 748-752.	5.2	9
28	High flame retardancy of amorphous sodium silicate on poly(ethylene-co-vinyl acetate) (EVA). Polymer Bulletin, 2018, 75, 4967-4976.	3.3	9
29	Femtosecond Transient Reflecting Grating Methods and Analysis of the Ultrafast Carrier Dynamics on Si(111) Surfaces.. Analytical Sciences, 2000, 16, 403-406.	1.6	8
30	Flame-retardant coatings for rigid polyurethane foam based on mixtures of polysaccharides and polyborate. Journal of Coatings Technology Research, 2021, 18, 155-162.	2.5	8
31	Fire-resistant nonwovens of EVOH and PET treated with amorphous sodium polyborate. Journal of Materials Science, 2010, 45, 2504-2509.	3.7	7
32	A Novel Sodium Silicate Fluoride Solution and a H2 Gas Formed by a Reaction Between Si and an Aqueous Solution of NaOH and NaF. Journal of the American Ceramic Society, 2005, 88, 1628-1630.	3.8	6
33	Facile synthesis of nanocrystalline hexagonal tungsten trioxide from metallic tungsten powder and hydrogen peroxide. Journal of the American Ceramic Society, 2018, 101, 509-514.	3.8	5
34	Preparation of nanocrystalline LiNbO3 through aqueous solution process using peroxo - Polyniobic acid. Materials Chemistry and Physics, 2021, 272, 125035.	4.0	5
35	Microstructures of Hardened Mortars Using Eco-Cements and Sintered Sewage Sludge.. Journal of the Ceramic Society of Japan, 2002, 110, 535-540.	1.3	4
36	Monitoring of Trace Amounts of Chromium in Ordinary Portland Cement Using X-Ray Absorption Fine Structure Analysis. Journal of the Ceramic Society of Japan, 2003, 111, 608-610.	1.3	4

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37	Recycle of Incineration Ash of Urban Waste Using Foam Water Glass.. Journal of the Ceramic Society of Japan, 2003, 111, 77-80.	1.3	4
38	Chemical Speciation of Trace Zinc in Ordinary Portland Cement Using X-ray Absorption Fine Structure Analysis. Journal of the American Ceramic Society, 2004, 87, 2294-2296.	3.8	4
39	Percolation-Type Chemical Sensor: Electrical- and Humidity-Sensing Properties of Carbon-Montmorillonite Composites. International Journal of Applied Ceramic Technology, 2011, 8, 793-799.	2.1	4
40	Fireproofing Technique of Wood Using Sodium Polyborate Solution. Zairyo/Journal of the Society of Materials Science, Japan, 2007, 56, 472-476.	0.2	3
41	Lithium ion insertion properties of nanocrystalline anatase titanium oxides prepared from peroxo-polytitanic acid. Solid State Ionics, 2014, 255, 60-64.	2.7	3
42	Effect of Organic Phase on Dynamic and Collective Behavior of Surfactants at Liquid/Liquid Interfaces by a Time-Resolved Quasi-Elastic Laser-Scattering Method.. Analytical Sciences, 2000, 16, 1199-1202.	1.6	2
43	Fireproofing wood using borate and vinyl phosphorus compounds and its water resistant treatment using copolymer of dimethyl vinylphosphonate and methyl methacrylate. Journal of Wood Chemistry and Technology, 2021, 41, 83-90.	1.7	2
44	Ultrafast Energy Transfer Dynamics at Solid/Liquid Interfaces as Investigated by Photothermal Spectroscopy. Bulletin of the Chemical Society of Japan, 2000, 73, 507-514.	3.2	1
45	Diagnosis of Degradation of Concrete by Using AC Impedance Analysis. Non-Destructive Testing of Internal Cracks.. Journal of the Ceramic Society of Japan, 2001, 109, 77-78.	1.3	1
46	Analysis of a Quasi-Elastic Laser Scattering Spectrum Using the Maximum Entropy Method. Analytical Sciences, 2007, 23, 1439-1442.	1.6	1
47	Gas Sensor for Volatile Organochlorine Compounds Using Percolation Conduction of Organic Montmorillonite-Carbon Composites. International Journal of Applied Ceramic Technology, 2011, 8, 1408-1413.	2.1	1
48	Iron Deposition from Aluminosilicate Containing Trace Amount of Iron Oxide by Borateâ€Enhanced Hydrogen Reduction. Journal of the American Ceramic Society, 2015, 98, 3666-3669.	3.8	1
49	Generation and observation of ultrasonic waves on liquid surfaces by transient reflecting grating method. , 1999, , .		0
50	Inhibition of Dioxin Formation in Flue Gas by Removal of Hydrogen Chloride Using Foaming Water Glass. Journal of the Ceramic Society of Japan, 2006, 114, 408-410.	1.3	0