Yoshinori Tamai

List of Publications by Year
in descending order

45	1,333	430874	345221
papers	citations	18 h-index	36 g-index

46	46	46	1124
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Effective and efficient transport mechanism of CO2 in subnano-porous crystalline membrane of syndiotactic polystyrene. Journal of Membrane Science, 2022, 646, 120202.	8.2	3
2	Guest Occupation Effects on the Transition of Crystalline Syndiotactic Polystyrene: Selection Criteria for Fundamental Structures Î³â€‰â€‹ and Î³â€‰â€‹. Macromolecular Theory and Simulations, 2018, 27, 1800039.	1.4	1
3	Molecular dynamics simulations of structural transitions of crystalline polystyrene in response to external stresses and temperatures. Polymer, 2017, 128, 177-187.	3.8	4
4	Structural Analysis of Molecular Cavity Using a 3D Printer. Journal of Computer Chemistry Japan, 2016, 15, 97-104.	0.1	6
5	Diffusion mechanism of CO₂in a crystalline polymer membrane studied using model gases. Molecular Simulation, 2015, 41, 974-979.	2.0	5
6	Rearrangement of Nanoporous Cavity Structures in Crystalline Syndiotactic Polystyrene Associated with Stress-Induced Phase Transition. ACS Macro Letters, 2013, 2, 834-838.	4.8	11
7	Solubility of Noble and Hydrocarbon Gases in Poly(dimethylsiloxane) Using Test-Particle-Insertion Method. Kobunshi Ronbunshu, 2010, 67, 203-208.	0.2	0
8	Roles of the Ether Oxygen in Hydration of Tetrahydrofuran Studied by IR, NMR, and DFT Calculation Methods. Journal of Physical Chemistry B, 2009, 113, 906-915.	2.6	30
9	Computer Simulation in Polymer Physical Chemistry and Its Application to Biomolecules. Seibutsu Butsuri, 2007, 47, 390-396.	0.1	0
10	Formation of a 6FDA-based ring polyimide with nanoscale cavity evaluated by DFT calculations. Journal of Molecular Structure, 2005, 739, 105-115.	3.6	9
11	Reorientational relaxation of aromatic molecules in the molecular cavity of crystalline syndiotactic polystyrene studied by molecular dynamics simulation. Journal of Molecular Structure, 2005, 739, 33-40.	3.6	19
12	Sorption of organic solvents on the surface of crystalline syndiotactic polystyrene studied by molecular dynamics simulation. Journal of Molecular Structure, 2005, 739, 27-32.	3.6	8
13	Molecular Dynamics Study of Compressibility of Vitreous Silica. Japanese Journal of Applied Physics, 2005, 44, 8086-8087.	1.5	3
14	Molecular Dynamics Study of Fictive Temperature Dependence of Density of Vitreous Silica. Japanese Journal of Applied Physics, 2005, 44, 7550-7551.	1.5	2
15	Molecular Dynamic Study on Structure of Interface Formed by Binding Flat Amorphous Silica Surfaces at High Temperatures. Japanese Journal of Applied Physics, 2005, 44, 7539-7545.	1.5	1
16	Effect of encaged aromatic guests on the shape and connectivity of molecular cavity in crystalline polystyrene evaluated by molecular simulations. Journal of Chemical Physics, 2004, 121, 12085-12093.	3.0	17
17	Sorption Mechanism of Aromatic Molecules in the Interface between Liquid and Polymer Crystal. Molecular Simulation, 2004, 30, 901-906.	2.0	0
18	Molecular dynamics study of temperature dependence of volume of amorphous silica. Journal of Non-Crystalline Solids, 2004, 349, 319-330.	3.1	19

#	Article	IF	Citations
19	Molecular Dynamics Simulation of Polymers-Interaction between Polymer and Small Molecules-. Kobunshi, 2004, 53, 258-262.	0.0	2
20	Construction of Layered Structure of Rigid-Rod Polyesters with Flexible Side Chains by a Molecular Dynamics Simulation. Journal of Computer Chemistry Japan, 2004, 3, 13-20.	0.1	2
21	Fast one-dimensional gas transport in molecular capillary embedded in polymer crystal. Chemical Physics Letters, 2003, 371, 217-222.	2.6	12
22	Reorientational dynamics of aromatic molecules clathrated in Î´ form of crystalline syndiotactic polystyrene. Chemical Physics Letters, 2003, 371, 620-625.	2.6	25
23	Nanoscale molecular cavity in crystalline polymer membranes studied by molecular dynamics simulation. Polymer, 2003, 44, 3279-3289.	3.8	34
24	Effects of pressure on the fragile nature of fluorozirconates studied by molecular dynamics simulations. Physical Review E, 2003, 67, 031504.	2.1	3
25	Molecular dynamics simulation of high-pressure densification of fluorozirconate glass. Journal of Non-Crystalline Solids, 2002, 306, 282-291.	3.1	3
26	Thermally Induced Phase Transition of Crystalline Syndiotactic Polystyrene Studied by Molecular Dynamics Simulation. Macromolecular Rapid Communications, 2002, 23, 891-895.	3.9	31
27	A practical method to determine glass transition temperature in molecular dynamics simulation of mixed ionic glasses. Chemical Physics Letters, 2002, 351, 99-104.	2.6	4
28	Structural change in the process of permanent densification of fluorozirconate glass studied with molecular dynamics simulations. Physical Review B, 2000, 62, 865-873.	3.2	7
29	Role of structural relaxation in peculiar permanent densification of fluorozirconate glass. Journal of Chemical Physics, 2000, 112, 3875-3883.	3.0	7
30	Structure and Dynamics of Poly(Vinyl Alcohol) Hydrogel. Molecular Simulation, 1999, 21, 283-301.	2.0	12
31	Molecular dynamics simulation of permanent densification of fluorozirconate glass. Chemical Physics Letters, 1999, 302, 15-19.	2.6	6
32	Effects of polymer chains on structure and dynamics of supercooled water in poly(vinyl alcohol). Physical Review E, 1999, 59, 5647-5654.	2.1	21
33	Dynamic properties of supercooled water in poly(vinyl alcohol) hydrogel. Chemical Physics Letters, 1998, 285, 127-132.	2.6	20
34	Permeation of small penetrants in hydrogels. Fluid Phase Equilibria, 1998, 144, 441-448.	2.5	35
35	Structure and Potential Surface of Liquid Methanol in Low Temperature:â€‰ Comparison of the Hydrogen Bond Network in Methanol with Water. Journal of Physical Chemistry B, 1998, 102, 899-905.	2.6	25
36	Large Thermal Expansivity of Clathrate Hydrates. Journal of Physical Chemistry B, 1997, 101, 6560-6565.	2.6	34

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37	Molecular Dynamics Study of Water in Hydrogels. Molecular Simulation, 1996, 16, 359-374.	2.0	42
38	Molecular Dynamics Study of Polymerâ^'Water Interaction in Hydrogels. 1. Hydrogen-Bond Structure. Macromolecules, 1996, 29, 6750-6760.	4.8	230
39	Molecular Dynamics Study of Polymerâ^'Water Interaction in Hydrogels. 2. Hydrogen-Bond Dynamics. Macromolecules, 1996, 29, 6761-6769.	4.8	158
40	Molecular design of polymer membranes using molecular simulation technique. Fluid Phase Equilibria, 1995, 104, 363-374.	2.5	28
41	Molecular Simulation of Permeation of Small Penetrants through Membranes. 2. Solubilities. Macromolecules, 1995, 28, 2544-2554.	4.8	97
42	Molecular Simulation of Permeation of Small Penetrants through Membranes. 1. Diffusion Coefficients. Macromolecules, 1994, 27, 4498-4508.	4.8	201
43	Intrinsic viscosity of oligo- and poly(methyl methacrylate)s. Macromolecules, 1991, 24, 1608-1614.	4.8	38
44	Mean-square radius of gyration of oligo- and poly(methyl methacrylate)s in dilute solutions. Macromolecules, 1990, 23, 4067-4075.	4.8	89
45	Determination by 1H and 13C NMR of Stereochemical Compositions of Oligo- and Poly(methyl) Tj ETQq1 1 0.784314 rgBT /Overlock	2.7	25