

Takuro Matsunaga

List of Publications by Year in descending order

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Version: 2024-02-01

40
papers

2,760
citations

279798
23
h-index

289244
40
g-index

41
all docs

41
docs citations

41
times ranked

2542
citing authors

#	ARTICLE	IF	CITATIONS
1	Shear properties and water connectivity of wet granules at high solid content concentration. Advanced Powder Technology, 2022, 33, 103585.	4.1	1
2	In-situ 3D visualization of compression process for powder beds by synchrotron-radiation X-ray computed laminography. Powder Technology, 2021, 380, 265-272.	4.2	5
3	In Situ Small-Angle X-ray Scattering Studies on the Growth Mechanism of Anisotropic Platinum Nanoparticles. ACS Omega, 2021, 6, 10866-10874.	3.5	3
4	Interplay between Interparticle Potential and Adsorption Structure in Nanoparticle Dispersions with Polymer Addition as Displayed by Small-Angle Scattering. Langmuir, 2021, 37, 7503-7512.	3.5	8
5	Analysis of crack formation during fuel cell catalyst ink drying process. Reduction of catalyst layer cracking by addition of high boiling point solvent. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2021, 628, 127153.	4.7	21
6	Transparent thermoplastic composite from a refractive index-adjustable polymer blend. Composites Part B: Engineering, 2021, 225, 109258.	12.0	10
7	Effect of roll press on consolidation and electric/ionic-path formation of electrodes for all-solid-state battery. Journal of Power Sources Advances, 2021, 12, 100078.	5.1	5
8	Simultaneous study of anionic polymerization of ϵ -caprolactam and crystallization of polyamide 6 in an isothermal process by in situ WAXS. Polymer Journal, 2020, 52, 199-206.	2.7	1
9	Rheological behavior of concentrated slurry and wet granules for lithium ion battery electrodes. Advanced Powder Technology, 2020, 31, 4491-4499.	4.1	9
10	Enhancement mechanism of convective heat transfer via nanofluid: An analysis by means of synchrotron radiation imaging. International Journal of Heat and Mass Transfer, 2020, 159, 120081.	4.8	6
11	High-temperature crystallization of immiscible polymer blends induced by the shear flow in injection molding. Polymer Crystallization, 2019, 2, e10069.	0.8	1
12	Perpendicular SiO ₂ cylinders fabricated from a self-assembled block copolymer as an adaptable platform. European Polymer Journal, 2018, 107, 96-104.	5.4	5
13	Design and fabrication of morphologically controlled carbon nanotube/polyamide-6-based composites as electrically insulating materials having enhanced thermal conductivity and elastic modulus. Composites Science and Technology, 2017, 142, 41-49.	7.8	43
14	SANS studies on catalyst ink of fuel cell. Journal of Applied Polymer Science, 2014, 131, .	2.6	48
15	Dispersion of Rod-like Particles of Nafion in Salt-Free Water/1-Propanol and Water/Ethanol Solutions. Journal of Physical Chemistry B, 2014, 118, 141210091239007.	2.6	40
16	Mechanical properties of a polymer network of Tetra-PEG gel. Polymer Journal, 2013, 45, 300-306.	2.7	46
17	Microscopic insights into ion gel dynamics using neutron spectroscopy. Soft Matter, 2012, 8, 7888.	2.7	24
18	Examination of the Theories of Rubber Elasticity Using an Ideal Polymer Network. Macromolecules, 2011, 44, 5817-5821.	4.8	133

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19	Lipophilic Tail Architecture and Molecular Structure of Neutralizing Agent for the Controlled Rheology of Viscoelastic Fluid in Amino Acid-Based Anionic Surfactant System. <i>Langmuir</i> , 2011, 27, 2229-2236.	3.5	25
20	Precise Control and Prediction of Hydrogel Degradation Behavior. <i>Macromolecules</i> , 2011, 44, 3567-3571.	4.8	67
21	SANS Studies on Tetra-PEG Gel under Uniaxial Deformation. <i>Macromolecules</i> , 2011, 44, 1203-1210.	4.8	54
22	Rheo-SANS Studies on Shear-Thickening/Thinning in Aqueous Rodlike Micellar Solutions. <i>Langmuir</i> , 2011, 27, 1731-1738.	3.5	56
23	Structure and physical properties of dried Tetra-PEG gel. <i>Polymer</i> , 2011, 52, 4123-4128.	3.8	18
24	Structural aspects of the LCST phase behavior of poly(benzyl methacrylate) in room-temperature ionic liquid. <i>Polymer</i> , 2011, 52, 1589-1595.	3.8	58
25	Highly Elastic and Deformable Hydrogel Formed from Tetra-arm Polymers. <i>Macromolecular Rapid Communications</i> , 2010, 31, 1954-1959.	3.9	136
26	Rheo-SANS Studies on Shear Thickening in Clay~Poly(ethylene oxide) Mixed Solutions. <i>Macromolecules</i> , 2010, 43, 7793-7799.	4.8	26
27	Evaluation of Gelation Kinetics of Tetra-PEG Gel. <i>Macromolecules</i> , 2010, 43, 3935-3940.	4.8	66
28	Evaluation of Topological Defects in Tetra-PEG Gels. <i>Macromolecules</i> , 2010, 43, 488-493.	4.8	112
29	Microscopic Structure Analysis of Clay~Poly(ethylene oxide) Mixed Solution in a Flow Field by Contrast-Variation Small-Angle Neutron Scattering. <i>Macromolecules</i> , 2010, 43, 5075-5082.	4.8	23
30	Structure and Rheology of a Self-Standing Nanoemulsion. <i>Langmuir</i> , 2010, 26, 2430-2437.	3.5	30
31	SANS and SLS Studies on Tetra-Arm PEG Gels in As-Prepared and Swollen States. <i>Macromolecules</i> , 2009, 42, 6245-6252.	4.8	227
32	Novel freebase and zinc bilinone dimers with optically active peripheral groups. Synthesis and application to chiral nematic induction in a nematic mesophase. <i>Research on Chemical Intermediates</i> , 2009, 35, 1033-1052.	2.7	1
33	Evaluation of incoherent scattering intensity by transmission and sample thickness. <i>Journal of Applied Crystallography</i> , 2009, 42, 621-628.	4.5	28
34	Visualization of Phospholipid Particle Fusion Induced by Duramycin. <i>Langmuir</i> , 2009, 25, 8200-8207.	3.5	10
35	Structure Characterization of Tetra-PEG Gel by Small-Angle Neutron Scattering. <i>Macromolecules</i> , 2009, 42, 1344-1351.	4.8	247
36	Design and Fabrication of a High-Strength Hydrogel with Ideally Homogeneous Network Structure from Tetrahedron-like Macromonomers. <i>Macromolecules</i> , 2008, 41, 5379-5384.	4.8	1,040

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37	Structural Characterization of Ionic Gelator Studied by Dynamic Light Scattering and Small-Angle Neutron Scattering. Journal of Physical Chemistry B, 2008, 112, 16469-16477.	2.6	12
38	Rheological Study on Rapid Recovery of Hydrogel Based on Oligomeric Electrolyte. Journal of Physical Chemistry B, 2008, 112, 11537-11541.	2.6	38
39	<i>In situ</i> small-angle neutron scattering and rheological measurements of shear-induced gelation. Journal of Chemical Physics, 2007, 127, 144507.	3.0	22
40	Gel point determination of gelatin hydrogels by dynamic light scattering and rheological measurements. Physical Review E, 2007, 76, 030401.	2.1	54