

# Takuro Matsunaga

## List of Publications by Year in descending order

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Version: 2024-02-01

40  
papers

2,760  
citations

318942

23  
h-index

325983

40  
g-index

41  
all docs

41  
docs citations

41  
times ranked

2923  
citing authors

#	ARTICLE	IF	CITATIONS
1	Shear properties and water connectivity of wet granules at high solid content concentration. <i>Advanced Powder Technology</i> , 2022, 33, 103585.	2.0	1
2	In-situ 3D visualization of compression process for powder beds by synchrotron-radiation X-ray computed laminography. <i>Powder Technology</i> , 2021, 380, 265-272.	2.1	5
3	In Situ Small-Angle X-ray Scattering Studies on the Growth Mechanism of Anisotropic Platinum Nanoparticles. <i>ACS Omega</i> , 2021, 6, 10866-10874.	1.6	3
4	Interplay between Interparticle Potential and Adsorption Structure in Nanoparticle Dispersions with Polymer Addition as Displayed by Small-Angle Scattering. <i>Langmuir</i> , 2021, 37, 7503-7512.	1.6	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. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021, 628, 127153.	2.3	21
6	Transparent thermoplastic composite from a refractive index-adjustable polymer blend. <i>Composites Part B: Engineering</i> , 2021, 225, 109258.	5.9	10
7	Effect of roll press on consolidation and electric/ionic-path formation of electrodes for all-solid-state battery. <i>Journal of Power Sources Advances</i> , 2021, 12, 100078.	2.6	5
8	Simultaneous study of anionic polymerization of $\epsilon$ -caprolactam and crystallization of polyamide 6 in an isothermal process by in situ WAXS. <i>Polymer Journal</i> , 2020, 52, 199-206.	1.3	1
9	Rheological behavior of concentrated slurry and wet granules for lithium ion battery electrodes. <i>Advanced Powder Technology</i> , 2020, 31, 4491-4499.	2.0	9
10	Enhancement mechanism of convective heat transfer via nanofluid: An analysis by means of synchrotron radiation imaging. <i>International Journal of Heat and Mass Transfer</i> , 2020, 159, 120081.	2.5	6
11	High-temperature crystallization of immiscible polymer blends induced by the shear flow in injection molding. <i>Polymer Crystallization</i> , 2019, 2, e10069.	0.5	1
12	Perpendicular SiO <sub>2</sub> cylinders fabricated from a self-assembled block copolymer as an adaptable platform. <i>European Polymer Journal</i> , 2018, 107, 96-104.	2.6	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. <i>Composites Science and Technology</i> , 2017, 142, 41-49.	3.8	43
14	SANS studies on catalyst ink of fuel cell. <i>Journal of Applied Polymer Science</i> , 2014, 131, .	1.3	48
15	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.	1.2	40
16	Mechanical properties of a polymer network of Tetra-PEG gel. <i>Polymer Journal</i> , 2013, 45, 300-306.	1.3	46
17	Microscopic insights into ion gel dynamics using neutron spectroscopy. <i>Soft Matter</i> , 2012, 8, 7888.	1.2	24
18	Examination of the Theories of Rubber Elasticity Using an Ideal Polymer Network. <i>Macromolecules</i> , 2011, 44, 5817-5821.	2.2	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.	1.6	25
20	Precise Control and Prediction of Hydrogel Degradation Behavior. <i>Macromolecules</i> , 2011, 44, 3567-3571.	2.2	67
21	SANS Studies on Tetra-PEG Gel under Uniaxial Deformation. <i>Macromolecules</i> , 2011, 44, 1203-1210.	2.2	54
22	Rheo-SANS Studies on Shear-Thickening/Thinning in Aqueous Rodlike Micellar Solutions. <i>Langmuir</i> , 2011, 27, 1731-1738.	1.6	56
23	Structure and physical properties of dried Tetra-PEG gel. <i>Polymer</i> , 2011, 52, 4123-4128.	1.8	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.	1.8	58
25	Highly Elastic and Deformable Hydrogel Formed from Tetra-arm Polymers. <i>Macromolecular Rapid Communications</i> , 2010, 31, 1954-1959.	2.0	136
26	Rheo-SANS Studies on Shear Thickening in Clay~Poly(ethylene oxide) Mixed Solutions. <i>Macromolecules</i> , 2010, 43, 7793-7799.	2.2	26
27	Evaluation of Gelation Kinetics of Tetra-PEG Gel. <i>Macromolecules</i> , 2010, 43, 3935-3940.	2.2	66
28	Evaluation of Topological Defects in Tetra-PEG Gels. <i>Macromolecules</i> , 2010, 43, 488-493.	2.2	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.	2.2	23
30	Structure and Rheology of a Self-Standing Nanoemulsion. <i>Langmuir</i> , 2010, 26, 2430-2437.	1.6	30
31	SANS and SLS Studies on Tetra-Arm PEG Gels in As-Prepared and Swollen States. <i>Macromolecules</i> , 2009, 42, 6245-6252.	2.2	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.	1.3	1
33	Evaluation of incoherent scattering intensity by transmission and sample thickness. <i>Journal of Applied Crystallography</i> , 2009, 42, 621-628.	1.9	28
34	Visualization of Phospholipid Particle Fusion Induced by Duramycin. <i>Langmuir</i> , 2009, 25, 8200-8207.	1.6	10
35	Structure Characterization of Tetra-PEG Gel by Small-Angle Neutron Scattering. <i>Macromolecules</i> , 2009, 42, 1344-1351.	2.2	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.	2.2	1,040

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37	Structural Characterization of Ionic Gelator Studied by Dynamic Light Scattering and Small-Angle Neutron Scattering. <i>Journal of Physical Chemistry B</i> , 2008, 112, 16469-16477.	1.2	12
38	Rheological Study on Rapid Recovery of Hydrogel Based on Oligomeric Electrolyte. <i>Journal of Physical Chemistry B</i> , 2008, 112, 11537-11541.	1.2	38
39	<i>In situ</i> small-angle neutron scattering and rheological measurements of shear-induced gelation. <i>Journal of Chemical Physics</i> , 2007, 127, 144507.	1.2	22
40	Gel point determination of gelatin hydrogels by dynamic light scattering and rheological measurements. <i>Physical Review E</i> , 2007, 76, 030401.	0.8	54