

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 | 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 |
| 2 | Structure Characterization of Tetra-PEG Gel by Small-Angle Neutron Scattering. <i>Macromolecules</i> , 2009, 42, 1344-1351. | 4.8 | 247 |
| 3 | 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 |
| 4 | Highly Elastic and Deformable Hydrogel Formed from Tetra-arm Polymers. <i>Macromolecular Rapid Communications</i> , 2010, 31, 1954-1959. | 3.9 | 136 |
| 5 | Examination of the Theories of Rubber Elasticity Using an Ideal Polymer Network. <i>Macromolecules</i> , 2011, 44, 5817-5821. | 4.8 | 133 |
| 6 | Evaluation of Topological Defects in Tetra-PEG Gels. <i>Macromolecules</i> , 2010, 43, 488-493. | 4.8 | 112 |
| 7 | Precise Control and Prediction of Hydrogel Degradation Behavior. <i>Macromolecules</i> , 2011, 44, 3567-3571. | 4.8 | 67 |
| 8 | Evaluation of Gelation Kinetics of Tetra-PEG Gel. <i>Macromolecules</i> , 2010, 43, 3935-3940. | 4.8 | 66 |
| 9 | 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 |
| 10 | Rheo-SANS Studies on Shear-Thickening/Thinning in Aqueous Rodlike Micellar Solutions. <i>Langmuir</i> , 2011, 27, 1731-1738. | 3.5 | 56 |
| 11 | Gel point determination of gelatin hydrogels by dynamic light scattering and rheological measurements. <i>Physical Review E</i> , 2007, 76, 030401. | 2.1 | 54 |
| 12 | SANS Studies on Tetra-PEG Gel under Uniaxial Deformation. <i>Macromolecules</i> , 2011, 44, 1203-1210. | 4.8 | 54 |
| 13 | SANS studies on catalyst ink of fuel cell. <i>Journal of Applied Polymer Science</i> , 2014, 131, . | 2.6 | 48 |
| 14 | Mechanical properties of a polymer network of Tetra-PEG gel. <i>Polymer Journal</i> , 2013, 45, 300-306. | 2.7 | 46 |
| 15 | 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. | 7.8 | 43 |
| 16 | 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 |
| 17 | Rheological Study on Rapid Recovery of Hydrogel Based on Oligomeric Electrolyte. <i>Journal of Physical Chemistry B</i> , 2008, 112, 11537-11541. | 2.6 | 38 |
| 18 | Structure and Rheology of a Self-Standing Nanoemulsion. <i>Langmuir</i> , 2010, 26, 2430-2437. | 3.5 | 30 |

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|----|--|------|-----------|
| 19 | Evaluation of incoherent scattering intensity by transmission and sample thickness. <i>Journal of Applied Crystallography</i> , 2009, 42, 621-628. | 4.5 | 28 |
| 20 | Rheo-SANS Studies on Shear Thickening in Clay~Poly(ethylene oxide) Mixed Solutions. <i>Macromolecules</i> , 2010, 43, 7793-7799. | 4.8 | 26 |
| 21 | 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 |
| 22 | Microscopic insights into ion gel dynamics using neutron spectroscopy. <i>Soft Matter</i> , 2012, 8, 7888. | 2.7 | 24 |
| 23 | 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 |
| 24 | <i>In situ</i> small-angle neutron scattering and rheological measurements of shear-induced gelation. <i>Journal of Chemical Physics</i> , 2007, 127, 144507. | 3.0 | 22 |
| 25 | 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. | 4.7 | 21 |
| 26 | Structure and physical properties of dried Tetra-PEG gel. <i>Polymer</i> , 2011, 52, 4123-4128. | 3.8 | 18 |
| 27 | 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. | 2.6 | 12 |
| 28 | Visualization of Phospholipid Particle Fusion Induced by Duramycin. <i>Langmuir</i> , 2009, 25, 8200-8207. | 3.5 | 10 |
| 29 | Transparent thermoplastic composite from a refractive index-adjustable polymer blend. <i>Composites Part B: Engineering</i> , 2021, 225, 109258. | 12.0 | 10 |
| 30 | Rheological behavior of concentrated slurry and wet granules for lithium ion battery electrodes. <i>Advanced Powder Technology</i> , 2020, 31, 4491-4499. | 4.1 | 9 |
| 31 | 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. | 3.5 | 8 |
| 32 | 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. | 4.8 | 6 |
| 33 | Perpendicular SiO ₂ cylinders fabricated from a self-assembled block copolymer as an adaptable platform. <i>European Polymer Journal</i> , 2018, 107, 96-104. | 5.4 | 5 |
| 34 | 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. | 4.2 | 5 |
| 35 | 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. | 5.1 | 5 |
| 36 | In Situ Small-Angle X-ray Scattering Studies on the Growth Mechanism of Anisotropic Platinum Nanoparticles. <i>ACS Omega</i> , 2021, 6, 10866-10874. | 3.5 | 3 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 37 | 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 |
| 38 | High-temperature crystallization of immiscible polymer blends induced by the shear flow in injection molding. <i>Polymer Crystallization</i> , 2019, 2, e10069. | 0.8 | 1 |
| 39 | Simultaneous study of anionic polymerization of ϵ -caprolactam and crystallization of polyamide 6 in an isothermal process by in situ WAXS. <i>Polymer Journal</i> , 2020, 52, 199-206. | 2.7 | 1 |
| 40 | Shear properties and water connectivity of wet granules at high solid content concentration. <i>Advanced Powder Technology</i> , 2022, 33, 103585. | 4.1 | 1 |