

Masaru Yoshida

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6807432/publications.pdf>

Version: 2024-02-01

81
papers

3,739
citations

186265

28
h-index

128289

60
g-index

81
all docs

81
docs citations

81
times ranked

4803
citing authors

#	ARTICLE	IF	CITATIONS
1	High-water-content mouldable hydrogels by mixing clay and a dendritic molecular binder. <i>Nature</i> , 2010, 463, 339-343.	27.8	1,446
2	Photochemically Reversible Liquefaction and Solidification of Single Compounds Based on a Sugar Alcohol Scaffold with Multi Azo-arms. <i>Advanced Materials</i> , 2012, 24, 2353-2356.	21.0	165
3	Photoinduced isothermal phase transitions of liquid-crystalline macrocyclic azobenzenes. <i>Chemical Communications</i> , 2011, 47, 1770-1772.	4.1	135
4	Photochemically Reversible Liquefaction and Solidification of Multiazobenzene Sugar-Alcohol Derivatives and Application to Reworkable Adhesives. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 7933-7941.	8.0	121
5	Photoinduced Crystal-to-Liquid Phase Transitions of Azobenzene Derivatives and Their Application in Photolithography Processes through a Solid-Liquid Patterning. <i>Organic Letters</i> , 2014, 16, 5012-5015.	4.6	115
6	Oligomeric Electrolyte as a Multifunctional Gelator. <i>Journal of the American Chemical Society</i> , 2007, 129, 11039-11041.	13.7	107
7	Azobenzene-Based (Meth)acrylates: Controlled Radical Polymerization, Photoresponsive Solid-Liquid Phase Transition Behavior, and Application to Reworkable Adhesives. <i>Macromolecules</i> , 2018, 51, 3243-3253.	4.8	94
8	Doubly-dendronized linear polymers. <i>Chemical Communications</i> , 2005, , 5169.	4.1	86
9	Highly ordered high-molecular weight alternating polysilylene copolymer prepared by anionic polymerization of masked disilene. <i>Macromolecules</i> , 1990, 23, 4494-4496.	4.8	74
10	Efficient Divergent Synthesis of Dendronized Polymers with Extremely High Molecular Weight: Structural Characterization by SEC-MALLS and SFM and Novel Organic Gelation Behavior. <i>Macromolecules</i> , 2005, 38, 334-344.	4.8	74
11	Light-Induced Reworkable Adhesives Based on ABA-type Triblock Copolymers with Azopolymer Termini. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 32649-32658.	8.0	72
12	Control of the Orientation and Photoinduced Phase Transitions of Macrocyclic Azobenzene. <i>Chemistry - A European Journal</i> , 2013, 19, 17391-17397.	3.3	65
13	In Vitro and in Vivo Evaluation of Hydrophilic Dendronized Linear Polymers. <i>Bioconjugate Chemistry</i> , 2005, 16, 535-541.	3.6	64
14	Reworkable adhesives composed of photoresponsive azobenzene polymer for glass substrates. <i>Journal of Adhesion</i> , 2017, 93, 823-830.	3.0	59
15	Fluorescence Spectroscopic Properties of Nitro-Substituted Diphenylpolyenes: Effects of Intramolecular Planarization and Intermolecular Interactions in Crystals. <i>Journal of Physical Chemistry A</i> , 2010, 114, 172-182.	2.5	50
16	Multi-layer LB films of single-wall carbon nanotubes. <i>Physica B: Condensed Matter</i> , 2002, 323, 235-236.	2.7	47
17	Viscoelastic and Photoresponsive Properties of Microparticle/Liquid-Crystal Composite Gels: Tunable Mechanical Strength along with Rapid-Recovery Nature and Photochemical Surface Healing using an Azobenzene Dopant. <i>Langmuir</i> , 2012, 28, 8463-8469.	3.5	46
18	Molecular theory of solvation for supramolecules and soft matter structures: application to ligand binding, ion channels, and oligomeric polyelectrolyte gelators. <i>Soft Matter</i> , 2012, 8, 1508-1520.	2.7	44

#	ARTICLE	IF	CITATIONS
19	DFT Study on Triplet Ground State Silylenes Revisited: The Quest for the Triplet Silylene Must Go On. <i>Organometallics</i> , 2002, 21, 2587-2589.	2.3	43
20	Silicon-Bridged Metacyclophanes as Parent Compounds of Silacalix[n]arenes. Synthesis, Structures, and Conformational Analysis by Semiempirical MO Calculations. <i>Organometallics</i> , 1999, 18, 1465-1470.	2.3	41
21	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
22	Hydrogels Based on Surfactant-Free Ionene Polymers with <i>N,N</i> -bis(<i>p</i> -Phenylene)dibenzamide Linkages. <i>Macromolecules</i> , 2008, 41, 8841-8846.	4.8	35
23	Effect of Salt Content on the Rheological Properties of Hydrogel Based on Oligomeric Electrolyte. <i>Journal of Physical Chemistry B</i> , 2010, 114, 1541-1547.	2.6	35
24	Characterization of Poly(<i>N</i> -isopropylacrylamide)-Grafted Interfaces with Sum-Frequency Generation Spectroscopy. <i>Macromolecules</i> , 2007, 40, 4601-4606.	4.8	33
25	Photoinduced Dispersibility Tuning of Carbon Nanotubes by a Water-Soluble Stilbene as a Dispersant. <i>Advanced Materials</i> , 2011, 23, 3922-3925.	21.0	32
26	Synthesis, Gelation Properties and Photopolymerization of Macrocyclic Diacetylenedicarboxamides Derived from <i>L</i> -Glutamic Acid and <i>trans</i> -1,4-Cyclohexanediol. <i>European Journal of Organic Chemistry</i> , 2011, 2011, 2247-2255.	2.4	31
27	Highly Efficient and Specific Gelation of Ionic Liquids by Polymeric Electrolytes to Form Ionogels with Substantially High Gel-Sol Transition Temperatures and Rheological Properties Like Self-Standing Ability and Rapid Recovery. <i>ACS Macro Letters</i> , 2012, 1, 1108-1112.	4.8	30
28	Thixotropic Hydrogel Formation in Various Aqueous Solutions through Self-Assembly of an Amphiphilic <i>Tris</i> -Urea. <i>Chemistry - an Asian Journal</i> , 2013, 8, 2584-2587.	3.3	30
29	A Dendronized Polymer Is a Single-Molecule Glass. <i>Journal of Physical Chemistry B</i> , 2005, 109, 6535-6543.	2.6	28
30	Two-Dimensional Piezochromism and Orientational Modulations in Polysilane Monolayer. <i>Macromolecules</i> , 1997, 30, 1860-1862.	4.8	24
31	Cation-Tuned Stimuli-Responsive and Optical Properties of Supramolecular Hydrogels. <i>Chemistry - an Asian Journal</i> , 2015, 10, 1299-1303.	3.3	23
32	Effective Nondestructive Purification of Single-Walled Carbon Nanotubes Based on High-Speed Centrifugation with a Photochemically Removable Dispersant. <i>Journal of Physical Chemistry C</i> , 2014, 118, 5013-5019.	3.1	22
33	Ionic gelators: oligomeric and polymeric electrolytes as novel gel forming materials. <i>Chemical Record</i> , 2010, 10, 230-242.	5.8	21
34	Azobenzene-Containing Block Copolymers as Light-Induced Reworkable Adhesives: Effects of Molecular Weight, Composition, and Block Copolymer Architectures on the Adhesive Properties. <i>Journal of Polymer Science Part A</i> , 2019, 57, 806-813.	2.3	21
35	Azobenzene-Containing Triblock Copolymer Adhesive Based on Light-Induced Solid-Liquid Phase Transition: Application to Bonding for Various Substrates. <i>Macromolecular Chemistry and Physics</i> , 2019, 220, 1900105.	2.2	21
36	Light-driven modulation of fluorescence color from azobenzene derivatives containing electron-donating and electron-withdrawing groups. <i>New Journal of Chemistry</i> , 2010, 34, 2892.	2.8	20

#	ARTICLE	IF	CITATIONS
37	Anionic polymerization of masked disilenes. Regioselective synthesis of monomers, structures of polymers and mechanism of initiation for polysilylenes of the type (R ₁ R ₂ SiSiMe ₂) _n . <i>Polymer</i> , 1994, 35, 4990-4997.	3.8	19
38	Surface-mediated chromism in a polysilane Langmuir-Blodgett film. <i>Chemical Communications</i> , 1996, , 1381.	4.1	19
39	Biobased Coatings Based on Eugenol Derivatives. <i>ACS Applied Bio Materials</i> , 2018, 1, 808-813.	4.6	19
40	Functional transformation of poly(dialkylaminotrimethylsilylene) prepared by anionic polymerization of the masked disilenes. The preparation of a true polysilastyrene. <i>Journal of Organometallic Chemistry</i> , 2003, 685, 65-69.	1.8	18
41	Photochemical Liquid-Solid Transitions in Multi-dye Compounds. <i>Molecular Crystals and Liquid Crystals</i> , 2014, 604, 64-70.	0.9	18
42	On the Thermochromism of Polysilylene Copolymers of Highly Ordered Structure. <i>Chemistry of Organosilicon Compounds</i> . 312.. <i>Macromolecules</i> , 1994, 27, 881-882.	4.8	17
43	Effects of surfactant concentration on formation of high-aspect-ratio gold nanorods. <i>Journal of Colloid and Interface Science</i> , 2013, 407, 265-272.	9.4	13
44	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
45	Grayscale Photopatterning of an Amorphous Polymer Thin Film Prepared by Photopolymerization of a Bisanthracene-Functionalized Liquid-Crystalline Monomer. <i>Advanced Functional Materials</i> , 2010, 20, 1561-1567.	14.9	12
46	Tuning of solubility and gelation ability of oligomeric electrolyte by anion exchange. <i>Polymer Journal</i> , 2010, 42, 759-765.	2.7	12
47	Reversible Bulk-Phase Change of Anthroyl Compounds for Photopatterning Based on Photodimerization in the Molten State and Thermal Back Reaction. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 2650-2657.	8.0	12
48	Improving thermal and mechanical properties of biomass-based polymers using structurally ordered polyesters from ricinoleic acid and 4-hydroxycinnamic acids. <i>RSC Advances</i> , 2020, 10, 36562-36570.	3.6	12
49	Self-Assembled Pseudo-Hexagonal Structures of Colloidal Particles at Air-Liquid Crystal Interface. <i>Applied Physics Express</i> , 2009, 2, 101501.	2.4	11
50	Dual use of anionic azobenzene derivative as dispersant and dopant for carbon nanotubes for enhanced thermal stability of transparent conductive films. <i>Carbon</i> , 2019, 152, 247-254.	10.3	11
51	Photoinduced Directional Motions of Microparticles at Air-Liquid-Crystal Interfaces of Azobenzene-Doped Liquid-Crystal Films with Homeotropic or Homogeneous Alignment Structures. <i>Applied Physics Express</i> , 2012, 5, 101701.	2.4	10
52	Dispersibility Switching of Carbon Nanotubes and Carbon Black by the Photoisomerization of a Cationic Azobenzene Derivative. <i>Chemistry Letters</i> , 2016, 45, 1307-1309.	1.3	10
53	Photocurable Urushiol Analogues Bearing Methacryloxy-Containing Side chains. <i>Langmuir</i> , 2019, 35, 4534-4539.	3.5	10
54	Contrasting roles of layered structures in the molecular assembly of liquid crystal matrices on the viscoelastic properties of microparticle/liquid crystal composite gels leading to rigidification and destabilization. <i>Journal of Colloid and Interface Science</i> , 2013, 397, 131-136.	9.4	9

#	ARTICLE	IF	CITATIONS
55	Photo-controllable coil-to-globule transition of single polymer molecules. <i>Polymer</i> , 2016, 97, 309-313.	3.8	9
56	Formation of Highly Pure and Patterned Carbon Nanotube Films on a Variety of Substrates by a Wet Process Based on Light-Induced Dispersibility Switching. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 30805-30811.	8.0	9
57	Semicrystalline poly(vinyl ether)s with high and phototunable glass transition temperature: application for thermally stable and reworkable adhesives. <i>Journal of Polymer Science</i> , 2020, 58, 568-577.	3.8	9
58	Organic Photofunctional Materials Composed of Azobenzene Derivatives: Liquid-solid Phase Transition in Multi Azobenzene Compounds with Partially Substituted Structures. <i>Journal of Photopolymer Science and Technology</i> = [Fotoporima Konwakai Shi], 2014, 27, 301-305.	0.3	8
59	Synthesis of Polysilanes by New Procedures: Part 1 Ring-Opening Polymerisations and the Polymerisation of Masked Disilenes. , 2000, , 375-399.		8
60	Microwave Dielectric Study of an Oligomeric Electrolyte Gelator by Time Domain Reflectometry. <i>Journal of Physical Chemistry B</i> , 2009, 113, 10112-10116.	2.6	7
61	Photopatterned Single-Walled Carbon Nanotube Films Utilizing the Adsorption/Desorption Processes of Photofunctional Dispersants. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 28400-28405.	8.0	7
62	Production of acetoin from hydrothermally pretreated oil mesocarp fiber using metabolically engineered <i>Escherichia coli</i> in a bioreactor system. <i>Bioresource Technology</i> , 2017, 245, 1040-1048.	9.6	7
63	Polymerization of in situ generated disilenes. <i>Journal of Organometallic Chemistry</i> , 1996, 521, 287-293.	1.8	6
64	Synthesis, structures, and conformational analysis of dibenzodioxadisilocins. <i>Inorganic Chemistry Communication</i> , 2000, 3, 59-61.	3.9	5
65	Formation of a Lyotropic Liquid Crystal Phase in a Single Walled Carbon Nanotube Aqueous Ink with Low-molecular-weight Electrolyte. <i>Chemistry Letters</i> , 2017, 46, 1186-1189.	1.3	5
66	Effects of polyethylene spacer length in polymeric electrolytes on gelation of ionic liquids and ionogel properties. <i>Journal of Polymer Science Part A</i> , 2015, 53, 249-255.	2.3	4
67	Light-Induced Fabrication of Patterned Conductive Nanocarbon Films for Flexible Electrode. <i>ACS Applied Nano Materials</i> , 2020, 3, 8866-8874.	5.0	4
68	Conformational and Orientational Behavior of Functional Polysilanes at the Air/Water Interface. <i>Molecular Crystals and Liquid Crystals</i> , 1998, 322, 135-140.	0.3	3
69	Langmuir-Blodgett Films of Functional Polysilanes. Modification of Optical Properties in Polysilane Monolayer at the Air/Water Interface. <i>Molecular Crystals and Liquid Crystals</i> , 1999, 327, 71-76.	0.3	3
70	Regioselectivity control of photodimerization of liquid-crystalline cinnamoyl compounds by phase variation: dual functionality of p-terphenyl substituent as a mesogen and a triplet sensitizer. <i>Tetrahedron</i> , 2012, 68, 5513-5521.	1.9	3
71	Photochemical manipulation of microparticles on azobenzene-doped liquid-crystal films with homogeneous or homeotropic alignment structures. , 2012, , .		2
72	Self-assembly and amphiphilic behavior of poly(ester)-block-poly(amide) diblock copolymer based on biodegradable poly(butylene succinate) and poly(2-pyrrolidone). <i>European Polymer Journal</i> , 2022, 163, 110961.	5.4	2

#	ARTICLE	IF	CITATIONS
73	Photoreactivity and Fluorescence Spectrum of p-Phenylenediacrylic Acid Amide Derivative.. Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi], 1997, 10, 225-226.	0.3	1
74	Helical-structure-induced softening of particle/liquid-crystal composite gels. Transactions of the Materials Research Society of Japan, 2015, 40, 335-338.	0.2	1
75	Ring-Opening Polymerization of Carbacyclic Silanes.. Kobunshi, 1992, 41, 78-81.	0.0	0
76	The conformational state and phase transition of polysilane in arachidic acid LB film matrix. Thin Solid Films, 1996, 284-285, 281-283.	1.8	0
77	Photoreactive Crystals: Photodimerization of a Diolefinic Derivative Accompanied by Isomerization. Molecular Crystals and Liquid Crystals, 2001, 356, 15-22.	0.3	0
78	Rewritable Photopatterning of a Bisanthracene-Functionalized Mesogenic Compound by Photodimerization and Thermal Back-Reaction of the Anthracene Moiety. Materials Research Society Symposia Proceedings, 2011, 1293, 1.	0.1	0
79	Reversible phase change of new anthracene compounds triggered by the action of light and heat. IOP Conference Series: Materials Science and Engineering, 2014, 54, 012020.	0.6	0
80	(Z,E,Z)-1,6-Di-1-naphthylhexa-1,3,5-triene. Acta Crystallographica Section E: Structure Reports Online, 2009, 65, o294-o294.	0.2	0
81	Novel functional gels and their commercial distribution as chemical reagents. Synthesiology, 2012, 5, 171-178.	0.2	0