

Masanobu Naito

List of Publications by Year in descending order

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104
papers

4,521
citations

147566

31
h-index

106150

65
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112
all docs

112
docs citations

112
times ranked

5650
citing authors

#	ARTICLE	IF	CITATIONS
1	Facile synthesis of nanoporous carbons with controlled particle sizes by direct carbonization of monodispersed ZIF-8 crystals. <i>Chemical Communications</i> , 2013, 49, 2521.	2.2	474
2	Chemical-Stimuli-Controllable Circularly Polarized Luminescence from Anion-Responsive β -Conjugated Molecules. <i>Journal of the American Chemical Society</i> , 2011, 133, 9266-9269.	6.6	385
3	Enzyme nanoarchitectonics: organization and device application. <i>Chemical Society Reviews</i> , 2013, 42, 6322.	18.7	376
4	Regulation of β -Sheet Structures within Amyloid-Like β -Sheet Assemblage from Tripeptide Derivatives. <i>Journal of the American Chemical Society</i> , 1998, 120, 12192-12199.	6.6	208
5	Facile Synthetic Route to Highly Luminescent Sila[7]helicene. <i>Organic Letters</i> , 2013, 15, 2104-2107.	2.4	205
6	Large Cs adsorption capability of nanostructured Prussian Blue particles with high accessible surface areas. <i>Journal of Materials Chemistry</i> , 2012, 22, 18261.	6.7	174
7	Circularly Polarized Luminescent CdS Quantum Dots Prepared in a Protein Nanocage. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 7006-7009.	7.2	152
8	Circularly Polarized Luminescence of a Fluorescent Chiral Binaphthylene-Perylenebiscarboxydiimide Dimer. <i>ChemPhysChem</i> , 2007, 8, 1465-1468.	1.0	120
9	Circularly Polarized Luminescence in Supramolecular Assemblies of Chiral Bichromophoric Perylene Bisimides. <i>Chemistry - A European Journal</i> , 2013, 19, 14090-14097.	1.7	119
10	Circularly Polarized Luminescence of Eu(III) Complexes with Point- and Axis-Chiral Ligands Dependent on Coordination Structures. <i>Inorganic Chemistry</i> , 2009, 48, 11242-11250.	1.9	106
11	Synthesis and Properties of [7]Helicene-like Compounds Fused with a Fluorene Unit. <i>Organic Letters</i> , 2016, 18, 3654-3657.	2.4	104
12	Asymmetric Induction in the Preparation of Helical Receptor-Anion Complexes: Ion-Pair Formation with Chiral Cations. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 7967-7971.	7.2	102
13	Rhodium-Catalyzed Asymmetric Synthesis of Silicon-stereogenic Dibenzosiloles by Enantioselective [2+2+2] Cycloaddition. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 1616-1620.	7.2	102
14	Durable and Flexible Superhydrophobic Materials: Abrasion/Scratching/Slicing/Droplet Impacting/Bending/Twisting-Tolerant Composite with Porcupinefish-Like Structure. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 32381-32389.	4.0	97
15	Chiroptical generation and inversion during the mirror-symmetry-breaking aggregation of dialkylpolysilanes due to limonene chirality. <i>Chemical Communications</i> , 2012, 48, 6636.	2.2	87
16	Confinement of Single Polysilane Chains in Coordination Nanospaces. <i>Journal of the American Chemical Society</i> , 2015, 137, 5231-5238.	6.6	70
17	Stiffness- and Conformation-Dependent Polymer Wrapping onto Single-Walled Carbon Nanotubes. <i>Journal of the American Chemical Society</i> , 2008, 130, 16697-16703.	6.6	69
18	Achiral guest-induced chiroptical changes of a planar-chiral pillar[5]arene containing one β -conjugated unit. <i>Chemical Communications</i> , 2013, 49, 8782.	2.2	63

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19	Helical Polymer Command Surface: A Thermally Driven Chiroptical Transfer and Amplification in Binary Polysilane Film System. <i>Macromolecules</i> , 2004, 37, 3081-3083.	2.2	59
20	Prediction and optimization of epoxy adhesive strength from a small dataset through active learning. <i>Science and Technology of Advanced Materials</i> , 2019, 20, 1010-1021.	2.8	59
21	Homogeneously Dispersed Polyrotaxane in Epoxy Adhesive and Its Improvement in the Fracture Toughness. <i>Macromolecules</i> , 2019, 52, 2464-2475.	2.2	51
22	Naked-Eye Discrimination of Methanol from Ethanol Using Composite Film of Oxoporphyrinogen and Layered Double Hydroxide. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 5927-5930.	4.0	50
23	Hydrophobized plant polyphenols: self-assembly and promising antibacterial, adhesive, and anticorrosion coatings. <i>Chemical Communications</i> , 2016, 52, 312-315.	2.2	49
24	Modulated Supramolecular Assemblies Composed of Tripeptide Derivatives: A Formation of Micrometer-Scale Rods, Nanometer-Size Needles, and Regular Patterns with Molecular-Level Flatness from the Same Compound. <i>Langmuir</i> , 2000, 16, 4929-4939.	1.6	48
25	Toughening Effect of Rodlike Cellulose Nanocrystals in Epoxy Adhesive. <i>ACS Applied Polymer Materials</i> , 2020, 2, 1234-1243.	2.0	38
26	Spectroscopic Evidence of Si-H End Groups in Dialkylpolysilanes Synthesized via Wurtz Coupling. <i>Macromolecules</i> , 2004, 37, 367-370.	2.2	37
27	Highly Crystallized Nanometer-Sized Zeolite A with Large Cs Adsorption Capability for the Decontamination of Water. <i>Chemistry - an Asian Journal</i> , 2014, 9, 759-763.	1.7	34
28	Molecular cavity nanoarchitectonics for biomedical application and mechanical cavity manipulation. <i>CrystEngComm</i> , 2016, 18, 4890-4899.	1.3	34
29	Broadband Plasmon Resonance Enhanced Third-Order Optical Nonlinearity in Refractory Titanium Nitride Nanostructures. <i>ACS Photonics</i> , 2018, 5, 3452-3458.	3.2	33
30	Bioinspired adhesive polymer coatings for efficient and versatile corrosion resistance. <i>RSC Advances</i> , 2015, 5, 15977-15984.	1.7	31
31	Thermo-resettable cross-linked polymers for reusable/removable adhesives. <i>Polymer Chemistry</i> , 2018, 9, 5559-5565.	1.9	30
32	Weak noncovalent Si-H...C interactions stabilized fluoroalkylated rod-like polysilanes as ultrasensitive chemosensors. <i>Journal of Polymer Science Part A</i> , 2006, 44, 5060-5075.	2.5	28
33	Helical Shape Memory of Screw-Sense Switchable Polysilanes in Cast Films. <i>Chemistry of Materials</i> , 2004, 16, 3919-3923.	3.2	27
34	pH responsive smart carrier of [60] fullerene with 6-amino-cyclodextrin inclusion complex for photodynamic therapy. <i>Journal of Materials Chemistry</i> , 2012, 22, 22610.	6.7	27
35	Switching in molecular shapes: main chain length driven rod-to-circle transition of isolated helical polysilanes. <i>Chemical Communications</i> , 2006, , 2705-2707.	2.2	26
36	Highly Fluorescent Slipped-Cofacial Phthalocyanine Dimer as a Shallow Inclusion Complex with β -Cyclodextrin. <i>Journal of Physical Chemistry A</i> , 2012, 116, 5139-5144.	1.1	26

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37	Chiroptical Control in Helical Receptor-Anion Complexes. <i>Organic Letters</i> , 2013, 15, 6006-6009.	2.4	26
38	Chirality Induction by Formation of Assembled Structures Based on Anion-Responsive π -Conjugated Molecules. <i>Chemistry - A European Journal</i> , 2013, 19, 16263-16271.	1.7	26
39	Polysilanes on surfaces. <i>Soft Matter</i> , 2008, 4, 211-223.	1.2	25
40	Novel Molecular Weight and Solvatochromisms in Poly(methyl-3,3,3-trifluoropropylsilane) Induced by Cooperative Through-Space Si \cdots C Interactions. <i>Macromolecules</i> , 2004, 37, 5873-5879.	2.2	24
41	Circularly polarized luminescence from chiral Eu(III) Complex with high emission quantum yield. <i>Journal of Alloys and Compounds</i> , 2009, 488, 599-602.	2.8	22
42	Time-Resolved Observation of Chiral-Index-Selective Wrapping on Single-Walled Carbon Nanotube with Non-Aromatic Polysilane. <i>Journal of the American Chemical Society</i> , 2013, 135, 2374-2383.	6.6	22
43	Rational design of a biomimetic glue with tunable strength and ductility. <i>Polymer Chemistry</i> , 2017, 8, 1654-1663.	1.9	22
44	Oligoamylose-entwined porphyrin: excited-state induced-fit for chirality induction. <i>Chemical Communications</i> , 2016, 52, 2481-2484.	2.2	21
45	Multiblock Polysilane Copolymers: One-Pot Wurtz Synthesis, Fluoride Anion-Induced Block-Selective Scission Experiments, and Spectroscopic Characterization. <i>Macromolecules</i> , 2008, 41, 1952-1960.	2.2	20
46	Strengthening epoxy adhesives at elevated temperatures based on dynamic disulfide bonds. <i>Materials Advances</i> , 2020, 1, 3182-3188.	2.6	20
47	Reversible Photogeneration of a Stable Chiral Radical-Pair from a Fast Photochromic Molecule. <i>Journal of Physical Chemistry Letters</i> , 2011, 2, 2680-2682.	2.1	19
48	Liquid Marble Patchwork on Super-Repellent Surface. <i>Advanced Functional Materials</i> , 2021, 31, 2010957.	7.8	19
49	Polyfluorene nano-rings and nano-dots on mica surfaces: evaporation-induced polymer self-assembly and photoluminescence properties of the assemblies. <i>Soft Matter</i> , 2008, 4, 2396.	1.2	18
50	Programmed High-Hole-Mobility Supramolecular Polymers from Disk-Shaped Molecules. <i>Advanced Functional Materials</i> , 2010, 20, 3941-3947.	7.8	18
51	Effect of Solvation on Induce-Fit Molecular Recognition in Supercritical Fluid to Organic Crystals Immobilized on a Quartz Crystal Microbalance. <i>Journal of the American Chemical Society</i> , 2001, 123, 11037-11041.	6.6	17
52	First observation of a smectic A-cholesteric phase transition in a thermotropic liquid crystal consisting of a rigid-rod helical polysilane. <i>Liquid Crystals</i> , 2004, 31, 279-283.	0.9	17
53	Pyridyl-cyclodextrin for ultra-hydrosolubilization of [60]fullerene. <i>Chemical Communications</i> , 2014, 50, 8339-8342.	2.2	17
54	Exceptional Robustness and Self-Reconfigurability of Liquid Marbles on Superhydrophobic Substrate. <i>Advanced Materials Interfaces</i> , 2020, 7, 2000160.	1.9	17

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55	Vertically-oriented conjugated polymer arrays in mesoporous alumina via simple drop-casting and appearance of anisotropic photoluminescence. <i>Chemical Communications</i> , 2012, 48, 549-551.	2.2	16
56	Apoptotic Cell Membrane-Inspired Polymer for Immunosuppression. <i>ACS Macro Letters</i> , 2017, 6, 1020-1024.	2.3	16
57	Environmentally friendly recycling system for epoxy resin with dynamic covalent bonding. <i>Science and Technology of Advanced Materials</i> , 2021, 22, 532-542.	2.8	16
58	Evolution of and Disparity among Biomimetic Superhydrophobic Surfaces with Gecko, Petal, and Lotus Effect. <i>Small</i> , 2022, 18, e2200349.	5.2	16
59	Evaluation of Global Conformation of Polydialkylsilane Using Correlation between Persistence Length and Excitonic Absorption. <i>Macromolecules</i> , 2011, 44, 6568-6573.	2.2	15
60	Room-temperature one-step immobilization of rod-like helical polymer onto hydrophilic substrates. <i>Chemical Communications</i> , 2004, , 276-277.	2.2	12
61	Ambidextrous optically active copper(ii) phthalocyanine supramolecules induced by peripheral group homochirality. <i>New Journal of Chemistry</i> , 2010, 34, 2310.	1.4	12
62	Enhancement of the complex third-order nonlinear optical susceptibility in Au nanorods. <i>Optics Express</i> , 2019, 27, 19168.	1.7	12
63	Switching in Orientation of Macromolecular Helical Rod Silicon on the Solid Surfaces. <i>Macromolecules</i> , 2007, 40, 648-652.	2.2	11
64	Monovalent Anion Indicator Based on Fluorescence Quenching of Helical Fluorinated Poly(dialkylsilanes). <i>Macromolecules</i> , 2010, 43, 7919-7923.	2.2	11
65	Natural Polyphenol Surfactants: Solvent-Mediated Spherical Nanocontainers and Their Stimuli-Responsive Release of Molecular Payloads. <i>Chemistry of Materials</i> , 2018, 30, 8025-8033.	3.2	11
66	Alternating Copolymers of Vinyl Catechol or Vinyl Phenol with Alkyl Maleimide for Adhesive and Water-Repellent Coating Materials. <i>ACS Applied Polymer Materials</i> , 2020, 2, 4604-4612.	2.0	11
67	Versatile self-assembled hybrid systems with exotic structures and unique functions. <i>Current Opinion in Colloid and Interface Science</i> , 2011, 16, 482-490.	3.4	10
68	Spectral dependence of the third-order optical susceptibility of Au nanostructures: Experiments and first-principles calculations. <i>Physical Review B</i> , 2019, 100, .	1.1	10
69	Mechanochromism of dynamic disulfide bonds as a chromophoric indicator of adhesion strength for epoxy adhesive. <i>Materials Advances</i> , 2021, 2, 5047-5051.	2.6	10
70	Nucleobase molecular recognition in supercritical carbon dioxide by using a highly sensitive 27 MHz quartz-crystal microbalance. <i>Chemical Communications</i> , 2000, , 45-46.	2.2	8
71	Polysilane Organogel with Hierarchical Structures Formed by Weak Intra-/Inter-chain Si/FC and van der Waals Interactions. <i>Polymer Journal</i> , 2008, 40, 317-326.	1.3	7
72	Chain dimensions and intermolecular interactions of polysilanes bearing alkyl side groups over the UV thermochromic temperature. <i>Polymer</i> , 2015, 68, 221-226.	1.8	7

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73	Combinational Effect of Cell Adhesion Biomolecules and Their Immobilized Polymer Property to Enhance Cell-Selective Adhesion. <i>International Journal of Polymer Science</i> , 2016, 2016, 1-9.	1.2	7
74	Dispersion state of carbon black in polystyrene produced with different dispersion media and its effects on composite rheological properties. <i>Polymer Journal</i> , 2019, 51, 275-281.	1.3	7
75	AFM Observation of a Supramolecular Rod-like Structure of Bilayer Membrane Formed from Tripeptide-Containing Amphiphiles. <i>Chemistry Letters</i> , 1998, 27, 493-494.	0.7	6
76	FT-IR, TEM, and AFM studies of supramolecular architecture formed by tripeptide-containing monoalkyl amphiphiles. <i>Polymers for Advanced Technologies</i> , 2000, 11, 856-864.	1.6	6
77	Combinational Effects of Polymer Viscoelasticity and Immobilized Peptides on Cell Adhesion to Cell-selective Scaffolds. <i>Analytical Sciences</i> , 2016, 32, 1195-1202.	0.8	6
78	Topological alternation from structurally adaptable to mechanically stable crosslinked polymer. <i>Science and Technology of Advanced Materials</i> , 2022, 23, 66-75.	2.8	6
79	Highly Organized Phthalocyanine Assembly onto Gold Surface through Spontaneous Polymerization. <i>Chemistry Letters</i> , 2007, 36, 304-305.	0.7	5
80	Preparation of phthalocyanine ultrathin film via layer-by-layer assembly. <i>Thin Solid Films</i> , 2009, 518, 625-628.	0.8	5
81	Freestanding Tough Glassy Membranes Produced by Simple Solvent Casting of Polyrotaxane Derivatives. <i>ACS Applied Polymer Materials</i> , 2021, 3, 4177-4183.	2.0	5
82	Understanding the evolution of a de novo molecule generator via characteristic functional group monitoring. <i>Science and Technology of Advanced Materials</i> , 2022, 23, 352-360.	2.8	5
83	Selective adsorption of globulin on nanofiber meshes for immunoabsorption therapy. <i>New Journal of Chemistry</i> , 2018, 42, 2916-2922.	1.4	4
84	Microbubble flows in superwetttable fluidic channels. <i>RSC Advances</i> , 2019, 9, 21220-21224.	1.7	4
85	Postprogrammable Network Topology with Broad Gradients of Mechanical Properties for Reliable Polymer Material Engineering. <i>Chemistry of Materials</i> , 2021, 33, 6876-6884.	3.2	4
86	Coalescence delay of microbubbles on superhydrophobic/superhydrophilic surfaces underwater. <i>Applied Physics Letters</i> , 2018, 113, 033705.	1.5	3
87	Global snapshot of the effects of the COVID-19 pandemic on the research activities of materials scientists between Spring and Autumn 2020. <i>Science and Technology of Advanced Materials</i> , 2021, 22, 173-184.	2.8	3
88	Machine-Learning-Based phase diagram construction for high-throughput batch experiments. <i>Science and Technology of Advanced Materials Methods</i> , 2022, 2, 153-161.	0.4	3
89	Poly(fluoroalkylsilane-b-dialkylsilane)-based chemosensory material for fluoride with high sensitivity, selectivity and solubility. <i>Synthetic Metals</i> , 2009, 159, 784-787.	2.1	2
90	Chemical Degelation of Polysilane Organogel by Selective Scission of Silicon Main Chain by Fluoride Anion. <i>Chemistry Letters</i> , 2009, 38, 414-415.	0.7	2

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91	Vertically Aligned Multilayer Films of Monodispersed Helical Polypeptides with Micrometer Thickness via Simple Cast. <i>Langmuir</i> , 2010, 26, 9166-9169.	1.6	2
92	Orientalional and Structural Transitions of Semiflexible Polysilanes on the Surfaces. <i>Kobunshi Ronbunshu</i> , 2008, 65, 199-207.	0.2	1
93	Light-Induced Topological Patterning toward 3D Shape-Reconfigurable Origami. <i>Small</i> , 2022, 18, 2107078.	5.2	1
94	Light-Induced Topological Patterning toward 3D Shape-Reconfigurable Origami (Small 14/2022). <i>Small</i> , 2022, 18, .	5.2	1
95	Novel Approach for Biofouling-Release Materials with Interpenetrating Polymer Networks. <i>Materials Research Society Symposia Proceedings</i> , 2005, 897, 1.	0.1	0
96	Novel Strategy for Antifouling Paints with Zero Endocrine Disrupting Chemical (EDC) Elution based on Interpenetrating Polymer Networks (IPNs). <i>Materials Research Society Symposia Proceedings</i> , 2005, 873, 1.	0.1	0
97	Preparation of Fluoroalkylpolysilanes with Wurtz-type Condensation Polymerization and Elucidation of their Organogelation Mechanism. <i>Kobunshi Ronbunshu</i> , 2009, 66, 298-311.	0.2	0
98	Liquid Marble Patchwork: Liquid Marble Patchwork on Super-Repellent Surface (<i>Adv. Funct. Mater.</i>) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	0.0	0
99	Biomimetics : New Approach of Adhesive Materials. <i>Seikei-Kakou</i> , 2018, 30, 113-116.	0.0	0
100	Anticorrosion and Antibacterial Coating Inspired byAstringent Persimmon. <i>Journal of the Adhesion Society of Japan</i> , 2018, 54, 58-64.	0.0	0
101	Emerging Technology, Multimaterial Fabrication. <i>Seikei-Kakou</i> , 2018, 30, 379-382.	0.0	0
102	Impact of Telechelic Polymer Precursors on the Viscoelastic Properties of Vitrimers. <i>Macromolecular Chemistry and Physics</i> , 2022, 223, 2100433.	1.1	0
103	Quantitative Fluorescent Detection of Antibacterial Activity with Pyrene-Bearing Tannic Acid. <i>Bulletin of the Chemical Society of Japan</i> , 2022, 95, 748-750.	2.0	0
104	Evolution of and Disparity among Biomimetic Superhydrophobic Surfaces with Gecko, Petal, and Lotus Effect (Small 18/2022). <i>Small</i> , 2022, 18, .	5.2	0