

Naozumi Teramoto

List of Publications by Year in descending order

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90
papers

2,369
citations

201658

27
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233409

45
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92
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92
docs citations

92
times ranked

2778
citing authors

#	ARTICLE	IF	CITATIONS
1	Biocomposites Made from Short Abaca Fiber and Biodegradable Polyesters. <i>Macromolecular Materials and Engineering</i> , 2003, 288, 35-43.	3.6	209
2	Biodegradation of aliphatic polyester composites reinforced by abaca fiber. <i>Polymer Degradation and Stability</i> , 2004, 86, 401-409.	5.8	159
3	Thermal and mechanical properties of poly(butylene succinate) nanocomposites with various organo-modified montmorillonites. <i>Journal of Applied Polymer Science</i> , 2004, 91, 1463-1475.	2.6	110
4	Trehalose and Trehalose-based Polymers for Environmentally Benign, Biocompatible and Bioactive Materials. <i>Molecules</i> , 2008, 13, 1773-1816.	3.8	105
5	Synthesis, thermal properties, and biodegradability of propyl-etherified starch. <i>European Polymer Journal</i> , 2003, 39, 255-261.	5.4	93
6	Mechanical properties, morphologies, and crystallization behavior of plasticized poly(l-lactide)/poly(butylene succinate-co-l-lactate) blends. <i>Polymer</i> , 2007, 48, 2768-2777.	3.8	93
7	Bio-based polymer networks by thiol-ene photopolymerizations of allyl-etherified eugenol derivatives. <i>European Polymer Journal</i> , 2015, 67, 397-408.	5.4	83
8	Biocomposites composed of epoxidized soybean oil cured with terpene-based acid anhydride and cellulose fibers. <i>Journal of Applied Polymer Science</i> , 2008, 108, 1596-1602.	2.6	81
9	Synthesis and properties of pullulan acetate. Thermal properties, biodegradability, and a semi-clear gel formation in organic solvents. <i>Carbohydrate Polymers</i> , 2006, 63, 476-481.	10.2	73
10	All-cellulose and all-wood composites by partial dissolution of cotton fabric and wood in ionic liquid. <i>Carbohydrate Polymers</i> , 2013, 98, 1532-1539.	10.2	69
11	Crosslinking and biodegradation of poly(butylene succinate) prepolymers containing itaconic or maleic acid units in the main chain. <i>Journal of Applied Polymer Science</i> , 2005, 95, 1473-1480.	2.6	68
12	Thermo-reversible Diels-Alder polymerization of difurfurylidene trehalose and bismaleimides. <i>Carbohydrate Polymers</i> , 2006, 64, 78-84.	10.2	66
13	Preparation and properties of biocomposites composed of epoxidized soybean oil, tannic acid, and microfibrillated cellulose. <i>Journal of Applied Polymer Science</i> , 2011, 120, 273-278.	2.6	55
14	Thermal and mechanical properties of bio-based polymer networks by thiol-ene photopolymerizations of gallic acid and pyrogallol derivatives. <i>Journal of Polymer Research</i> , 2016, 23, 1.	2.4	49
15	Chemical modification of pullulan by isocyanate compounds. <i>Polymer</i> , 2001, 42, 59-64.	3.8	41
16	Morphology and mechanical properties of pullulan/poly(vinyl alcohol) blends crosslinked with glyoxal. <i>Journal of Applied Polymer Science</i> , 2001, 82, 2273-2280.	2.6	38
17	Thermal and dynamic mechanical properties of organic-inorganic hybrid composites of itaconate-containing poly(butylene succinate) and methacrylate-substituted polysilsesquioxane. <i>Journal of Applied Polymer Science</i> , 2008, 107, 2159-2164.	2.6	37
18	Preparation and Mechanical Properties of Photo-Crosslinked Fish Gelatin/Imogolite Nanofiber Composite Hydrogel. <i>Materials</i> , 2012, 5, 2573-2585.	2.9	36

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19	High-performance bio-based bismaleimide resins using succinic acid and eugenol. <i>Polymer Journal</i> , 2011, 43, 916-922.	2.7	35
20	Biodegradable polyurethane elastomers prepared from isocyanate-terminated poly(ethylene adipate), castor oil, and glycerol. <i>Journal of Applied Polymer Science</i> , 2010, 115, 3199-3204.	2.6	33
21	An Improvement in the Attaching Capability of Cryopreserved Human Hepatocytes by a Proteinaceous High Molecule, Sericin, in the Serum-Free Solution. <i>Cell Transplantation</i> , 2010, 19, 701-706.	2.5	32
22	High performance bio-based thermosetting resins composed of tung oil and bismaleimide. <i>Journal of Applied Polymer Science</i> , 2011, 119, 896-901.	2.6	32
23	In Vitro Selection of a Ligase Ribozyme Carrying Alkylamino Groups in the Side Chains. <i>Bioconjugate Chemistry</i> , 2000, 11, 744-748.	3.6	30
24	Bio-based nanocomposites composed of photo-cured epoxidized soybean oil and supramolecular hydroxystearic acid nanofibers. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2009, 47, 669-673.	2.1	30
25	Amino acid-cured bio-based epoxy resins and their biocomposites with chitin- and chitosan-nanofibers. <i>European Polymer Journal</i> , 2018, 98, 216-225.	5.4	30
26	Ellipsoidal Artificial Melanin Particles as Building Blocks for Biomimetic Structural Coloration. <i>Langmuir</i> , 2019, 35, 5574-5580.	3.5	30
27	Synthesis and properties of etherified pullulans. <i>European Polymer Journal</i> , 2002, 38, 497-501.	5.4	29
28	High-performance bio-based thermosetting resins composed of dehydrated castor oil and bismaleimide. <i>Journal of Applied Polymer Science</i> , 2009, 114, 1033-1039.	2.6	27
29	Organogelation behavior, thermal and mechanical properties of polymer network formed by the Diels-Alder reaction of furan- and maleimide-terminated four-arm star-shaped μ -caprolactone oligomers. <i>Polymer</i> , 2013, 54, 3206-3216.	3.8	25
30	In Vitro Selection of Nonnatural Ribozyme-Catalyzing Porphyrin Metalation. <i>Biomacromolecules</i> , 2001, 2, 681-686.	5.4	24
31	Synthesis and properties of thermoplastic propyl-etherified amylose. <i>European Polymer Journal</i> , 2002, 38, 1365-1369.	5.4	22
32	A facile synthesis of a novel polyacetal containing trehalose residue in the main chain. <i>Carbohydrate Polymers</i> , 2004, 56, 1-6.	10.2	21
33	Preparation and properties of biocomposites composed of glycerol-based epoxy resins, tannic acid, and wood flour. <i>Journal of Applied Polymer Science</i> , 2010, 118, 2998-3004.	2.6	21
34	Trehalose-incorporated polymer network by thiol-ene photopolymerization. <i>Polymer Journal</i> , 2014, 46, 728-735.	2.7	18
35	Peroxidase activity of in vitro-selected 2'-amino RNAs. <i>Biotechnology and Bioengineering</i> , 2001, 75, 463-468.	3.3	16
36	Preparation of Photocrosslinked Fish Elastin Polypeptide/Microfibrillated Cellulose Composite Gels with Elastic Properties for Biomaterial Applications. <i>Marine Drugs</i> , 2015, 13, 338-353.	4.6	16

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37	Nanocomposites based on poly(ϵ -caprolactone) and the montmorillonite treated with dibutylamine-terminated ϵ -caprolactone oligomer. <i>Journal of Applied Polymer Science</i> , 2007, 104, 3112-3119.	2.6	15
38	High-performance hybrid materials prepared by the thermo-reversible Diels-Alder polymerization of furfuryl ester-terminated butylene succinate oligomers and maleimide compounds. <i>Polymer Journal</i> , 2011, 43, 455-463.	2.7	15
39	Bio-based polymer networks by thiol-ene photopolymerization of allylated l-glutamic acids and l-tyrosines. <i>European Polymer Journal</i> , 2018, 101, 151-158.	5.4	15
40	Self-healing 8-armed star-shaped ϵ -caprolactone oligomers dually crosslinked by the Diels-Alder and urethanization reactions. <i>Polymer</i> , 2018, 144, 92-102.	3.8	15
41	Synthesis and photocuring of cinnamoyl trehalose esters. <i>Polymers for Advanced Technologies</i> , 2007, 18, 971-977.	3.2	14
42	Preparation and properties of biocomposites composed of sorbitol-based epoxy resin, tung oil-pyrogallol resin, and wood flour. <i>Journal of Applied Polymer Science</i> , 2013, 129, 282-288.	2.6	14
43	Thermo-reversible Diels-Alder polymerization of difurfurylidene diglycerol and bismaleimide. <i>Reactive and Functional Polymers</i> , 2014, 76, 49-56.	4.1	14
44	Synthesis of 1,2-Bis(2-aryl-1H-indol-3-yl)ethynes via 5-exo-Digonal Double Cyclization Reactions of 1,4-Bis(2-isocyanophenyl)buta-1,3-diyne with Aryl Grignard Reagents. <i>Journal of Organic Chemistry</i> , 2017, 82, 652-663.	3.2	14
45	Synthesis, thermal properties and cell-compatibility of photocrosslinked cinnamoyl-modified hydroxypropyl cellulose. <i>Carbohydrate Polymers</i> , 2018, 184, 418-426.	10.2	14
46	In vitro adaptation of a ligase ribozyme for activity under a low-pH condition. <i>Biotechnology and Bioengineering</i> , 2001, 75, 590-596.	3.3	13
47	Synthesis and Properties of Thermoplastic Alternating Copolymers Containing Trehalose and Siloxane Units by Hydrosilylation Reaction. <i>Polymer Journal</i> , 2007, 39, 975-981.	2.7	13
48	Synthesis and Properties of Trehalose-Based Flexible Polymers Prepared from Difurfurylidene Trehalose and Maleimide-Terminated Oligo(dimethylsiloxane) by Diels-Alder Reactions. <i>Materials</i> , 2010, 3, 369-385.	2.9	13
49	Adhesion Control of Branched Catecholic Polymers by Acid Stimulation. <i>ACS Omega</i> , 2018, 3, 16626-16632.	3.5	13
50	Past and Current Progress in the Development of Antiviral/Antimicrobial Polymer Coating towards COVID-19 Prevention: A Review. <i>Polymers</i> , 2021, 13, 4234.	4.5	13
51	Thermal properties and biodegradability of the copolymers of l-lactide, ϵ -caprolactone, and ethylene glycol oligomer with maleate units and their crosslinked products. <i>Polymer</i> , 2004, 45, 7927-7933.	3.8	12
52	Molecular composites composed of castor oil-modified poly(ϵ -caprolactone) and self-assembled hydroxystearic acid fibers. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2010, 48, 1281-1289.	2.1	12
53	Gelation behavior and thermal and mechanical properties of polymer network formed by the Diels-Alder reaction of furan- and maleimide-terminated four-arm star-shaped ethylene glycol oligomers. <i>Colloid and Polymer Science</i> , 2015, 293, 1059-1071.	2.1	12
54	Synthesis and properties of novel C3-symmetrical 1,3,5-tris(dibenzoheteroly)benzenes. <i>Tetrahedron Letters</i> , 2015, 56, 260-263.	1.4	12

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55	Trehalose-based thermosetting resins. I. Synthesis and thermal properties of trehalose vinylbenzyl ether. <i>Journal of Applied Polymer Science</i> , 2004, 91, 46-51.	2.6	11
56	Polymer foam-reinforced hydrogels inspired by plant body frameworks as high-performance soft matter. <i>Polymer Journal</i> , 2014, 46, 592-597.	2.7	11
57	Conetworks composed of 4-armed star-shaped l-lactide oligomer and 4-armed star-shaped ϵ -caprolactone oligomer. <i>Polymer</i> , 2015, 74, 54-62.	3.8	11
58	Modified Nucleic Acid for Systematic Evolution of RNA Ligands by Exponential Enrichment. <i>Journal of Bioactive and Compatible Polymers</i> , 1998, 13, 114-123.	2.1	10
59	Novel synthetic route of a trehalose-based linear polymer by ring opening of two epoxy groups with aliphatic diamine. <i>Carbohydrate Polymers</i> , 2005, 59, 217-224.	10.2	10
60	Biomacromolecules, Biobased and Biodegradable Polymers (2017-2019). <i>Polymers</i> , 2020, 12, 2386.	4.5	9
61	Fibroblast cell proliferation on photo-cured trehalose cinnamoyl ester thin films. <i>Journal of Bioactive and Compatible Polymers</i> , 2015, 30, 87-98.	2.1	8
62	Ethynylene-bridged Conjugate Carbazole Trimers: Synthesis and their Structural, Photophysical, and Electrochemical Properties. <i>Asian Journal of Organic Chemistry</i> , 2017, 6, 841-851.	2.7	8
63	Stereocomplexation, Thermal and Mechanical Properties of Conetworks Composed of Star-Shaped l-Lactide, d-Lactide and μ -Caprolactone Oligomers Utilizing Sugar Alcohols as Core Molecules. <i>Polymers</i> , 2017, 9, 582.	4.5	8
64	In Vitro Selection of Ligase Ribozymes Containing 2'-Amino Groups. <i>Journal of Bioactive and Compatible Polymers</i> , 2000, 15, 297-308.	2.1	7
65	In vitro evolution and characterization of a ligase ribozyme adapted to acidic conditions: Effect of further rounds of evolution. <i>Biotechnology and Bioengineering</i> , 2005, 90, 36-45.	3.3	7
66	Polypeptide/layered silicate nanocomposites using fish-based collagen peptide: Effect of crosslinking and chain extension of the collagen peptide. <i>Journal of Applied Polymer Science</i> , 2007, 106, 4024-4030.	2.6	7
67	Synthesis and properties of fully conjugated macrocycles composed of m-diethynylene-phenylene-bridged two dibenzofuran, dibenzothiophene and carbazole units. <i>Tetrahedron</i> , 2018, 74, 2454-2465.	1.9	7
68	Cryopreservation of undifferentiated and differentiated human neuronal cells. <i>Regenerative Therapy</i> , 2022, 19, 58-68.	3.0	7
69	Photo-cured organic-inorganic hybrid composites of methacrylate-terminated 4-arm star-shaped μ -caprolactone oligomer and methacrylate- or thiol-substituted polysilsesquioxane. <i>Journal of Polymer Research</i> , 2014, 21, 1.	2.4	5
70	Stereocomplexation in Copolymer Networks Incorporating Enantiomeric Glycerol-Based 3-Armed Lactide Oligomers and a 2-Armed ϵ -Caprolactone Oligomer. <i>Materials</i> , 2016, 9, 591.	2.9	5
71	Nanocomposites composed of poly(ϵ -caprolactone) and oligocaprolactone-modified imogolite utilizing biomimetic chelating method. <i>Journal of Polymer Research</i> , 2016, 23, 1.	2.4	5
72	Synthesis, structure and properties of cholesterol-based A(LS) ₂ - and A(LS) ₃ -type gelators without hydrogen bond linkers. <i>Tetrahedron</i> , 2016, 72, 1517-1523.	1.9	5

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73	All carbohydrate-based nanocomposites composed of sorbitol polyglycidyl ether, aminated trehalose and cellulose nanofiber. <i>Carbohydrate Polymers</i> , 2020, 232, 115779.	10.2	5
74	Proposed Neuroimmune Roles of Dimethyl Fumarate, Bupropion, S-Adenosylmethionine, and Vitamin D3 in Affording a Chronically Ill Patient Sustained Relief from Inflammation and Major Depression. <i>Brain Sciences</i> , 2020, 10, 600.	2.3	5
75	Preparation and characterization of complex gel of type I collagen and aluminosilicate containing imogolite nanofibers. <i>Journal of Applied Polymer Science</i> , 2010, 118, 2284-2290.	2.6	4
76	Photocrosslinkable Trehalose Derivatives Carrying Mesogenic Groups: Synthesis, Characterization, and in Vitro Evaluation for Fibroblast Attachment. <i>Journal of Functional Biomaterials</i> , 2016, 7, 24.	4.4	4
77	Fluorescent and nonfluorescent crystals of N-(3,5-dihalogenosalicylidene)-2-methoxyaniline. <i>Journal of Molecular Structure</i> , 2016, 1105, 152-158.	3.6	3
78	Synthesis and Properties of a Conjugated Macrocyclic Molecule Incorporating Two Quinoline Moieties. <i>Chemistry Letters</i> , 2019, 48, 133-136.	1.3	3
79	Synthesis of Perfluoroalkyl Gelators and Their Selective Gelation Ability for Fluorinated Solvents. <i>Bulletin of the Chemical Society of Japan</i> , 2019, 92, 97-104.	3.2	3
80	Injectable hydrogel scaffold from natural biomaterials - An overview of recent studies. <i>AIP Conference Proceedings</i> , 2020, , .	0.4	3
81	Synthesis of Photocrosslinkable Copolymers of Cinnamoyl Group-modified Methacrylate and 2-Hydroxyethyl Methacrylate, and Fibroblast Cell Growth on Their Thin Films. <i>Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi]</i> , 2020, 32, 823-833.	0.3	3
82	In vitro Selection of Ligase Ribozymes Containing 2'-Amino Groups. <i>Journal of Bioactive and Compatible Polymers</i> , 2000, 15, 297-308.	2.1	3
83	Bio-based epoxy networks incorporating covalent and melamine cyanurate-type multiple hydrogen-bonding crosslinkages. <i>Journal of Polymer Research</i> , 2016, 23, 1.	2.4	2
84	Plant Cell-Inspired Hydrogel Composites with High Mechanical Strength. <i>ACS Symposium Series</i> , 2017, , 79-91.	0.5	2
85	Tough conetworks composed of 4-armed star-shaped oligomers of l-lactide, d-lactide and ε-caprolactone. <i>Polymer Bulletin</i> , 2018, 75, 2369-2390.	3.3	2
86	Toughening modification of polyester-urethane networks incorporating oligolactide and oligocaprolactone segments by utilizing castor oil as a core molecule. <i>Polymer Bulletin</i> , 2019, 76, 5313-5332.	3.3	2
87	Synthesis and photophysical properties of 7-(diethylamino)-3-(4-(arylethynyl)phenyl)-2H-chromen-2-ones as strong fluorescent materials. <i>Tetrahedron</i> , 2021, 96, 132369.	1.9	2
88	Chapter 2. Synthetic Green Polymers from Renewable Monomers. <i>RSC Green Chemistry</i> , 2011, , 22-78.	0.1	1
89	Thermal and mechanical properties of semi-interpenetrating polymer networks composed of diisocyanate-bridged, four-armed, star-shaped μ-caprolactone oligomers and poly(μ-caprolactone). <i>Journal of Applied Polymer Science</i> , 2013, 130, 4229-4236.	1.6	1
90	Synthesis of 6,6-Bis(4-arylethynylbenzoyl)-1,1-Trehaloses and Their Utilization as Fluorescent Probes for Cellular Imaging. <i>European Journal of Organic Chemistry</i> , 2018, 2018, 3444-3453.	2.4	1