

Kousuke Tsuchiya

List of Publications by Year in descending order

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110
papers

1,721
citations

331259

21
h-index

433756

31
g-index

113
all docs

113
docs citations

113
times ranked

1552
citing authors

#	ARTICLE	IF	CITATIONS
1	Stability analysis of a simple walking model driven by an oscillator with a phase reset using sensory feedback. , 2006, 22, 391-397.		85
2	Adaptive gait pattern control of a quadruped locomotion robot. , 0, , .		73
3	Synthesis of a Novel Poly(binaphthylene ether) with a Low Dielectric Constant. <i>Macromolecules</i> , 2004, 37, 4794-4797.	2.2	60
4	Synthesis of a Novel Poly(binaphthylene ether) Containing Trifluoromethyl Groups with a Low Dielectric Constant. <i>Macromolecules</i> , 2006, 39, 3964-3966.	2.2	51
5	Crystallization-induced mechanofluorescence for visualization of polymer crystallization. <i>Nature Communications</i> , 2021, 12, 126.	5.8	50
6	Catalytic oxidative polymerization of thiophene derivatives. <i>Polymer Journal</i> , 2013, 45, 281-286.	1.3	48
7	High-Resolution Patterning of Molecular Glasses Using Supercritical Carbon Dioxide. <i>Advanced Materials</i> , 2006, 18, 442-446.	11.1	47
8	Locomotion control of a biped locomotion robot using nonlinear oscillators. , 0, , .		44
9	Annealing effect on performance and morphology of photovoltaic devices based on poly(3-hexylthiophene)-b-poly(ethylene oxide). <i>Journal of Polymer Science Part A</i> , 2011, 49, 2645-2652.	2.5	43
10	Chemoenzymatic Synthesis of Polypeptides for Use as Functional and Structural Materials. <i>Macromolecular Bioscience</i> , 2017, 17, 1700177.	2.1	43
11	Chemoenzymatic synthesis of polypeptides containing the unnatural amino acid 2-aminoisobutyric acid. <i>Chemical Communications</i> , 2017, 53, 7318-7321.	2.2	39
12	Block Copolymer/Plasmid DNA Micelles Postmodified with Functional Peptides via Thiol-Maleimide Conjugation for Efficient Gene Delivery into Plants. <i>Biomacromolecules</i> , 2019, 20, 653-661.	2.6	38
13	Synthesis and Characterization of Poly(3-hexylthiophene)-b-Polystyrene for Photovoltaic Application. <i>Polymers</i> , 2011, 3, 558-570.	2.0	36
14	Lithography Based on Molecular Glasses. <i>Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi]</i> , 2005, 18, 431-434.	0.1	34
15	Molecular Interactions and Toughening Mechanisms in Silk Fibroin-Epoxy Resin Blend Films. <i>Biomacromolecules</i> , 2019, 20, 2295-2304.	2.6	34
16	The Benzyl Ester Group of Amino Acid Monomers Enhances Substrate Affinity and Broadens the Substrate Specificity of the Enzyme Catalyst in Chemoenzymatic Copolymerization. <i>Biomacromolecules</i> , 2016, 17, 314-323.	2.6	33
17	Chemical Synthesis of Multiblock Copolypeptides Inspired by Spider Dragline Silk Proteins. <i>ACS Macro Letters</i> , 2017, 6, 103-106.	2.3	33
18	Synthesis and characterization of highly fluorescent polythiophene derivatives containing polystyrene sidearms. <i>Journal of Polymer Science Part A</i> , 2008, 46, 1003-1013.	2.5	31

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19	Tensile Reinforcement of Silk Films by the Addition of Telechelic-Type Polyalanine. <i>Biomacromolecules</i> , 2017, 18, 1002-1009.	2.6	31
20	Synthesis and characterization of polytriphenylamine based graft polymers for photorefractive application. <i>Polymer</i> , 2013, 54, 269-276.	1.8	29
21	Artificial Cell-Penetrating Peptide Containing Periodic β -Aminoisobutyric Acid with Long-Term Internalization Efficiency in Human and Plant Cells. <i>ACS Biomaterials Science and Engineering</i> , 2020, 6, 3287-3298.	2.6	28
22	Non-transgenic Gene Modulation via Spray Delivery of Nucleic Acid/Peptide Complexes into Plant Nuclei and Chloroplasts. <i>ACS Nano</i> , 2022, 16, 3506-3521.	7.3	27
23	Endosome-escaping micelle complexes dually equipped with cell-penetrating and endosome-disrupting peptides for efficient DNA delivery into intact plants. <i>Nanoscale</i> , 2021, 13, 5679-5692.	2.8	26
24	Dual Peptide-Based Gene Delivery System for the Efficient Transfection of Plant Callus Cells. <i>Biomacromolecules</i> , 2020, 21, 2735-2744.	2.6	25
25	Preparation of diblock copolymer based on poly(4-n-butyltriphenylamine) via palladium coupling polymerization. <i>Polymer</i> , 2009, 50, 95-101.	1.8	24
26	Polymer-coated carbon nanotube hybrids with functional peptides for gene delivery into plant mitochondria. <i>Nature Communications</i> , 2022, 13, 2417.	5.8	24
27	Synthesis of charge transporting block copolymers containing 2,7-dimethoxycarbazole units for light emitting device. <i>Polymer</i> , 2010, 51, 616-622.	1.8	23
28	Papain-Catalyzed Chemoenzymatic Synthesis of Telechelic Polypeptides Using Bis(Leucine Ethyl Ester) Initiator. <i>Macromolecular Bioscience</i> , 2016, 16, 1001-1008.	2.1	21
29	Synthesis of bipolar charge transporting block copolymers and characterization for organic light-emitting diode. <i>Journal of Polymer Science Part A</i> , 2010, 48, 1461-1468.	2.5	20
30	Synthesis and Properties of a Novel Brush-type Copolymers Bearing Thiophene Backbone and 3-(N-carbazolyl)propyl Acrylate Side Chains for Light-emitting Applications. <i>Polymer Journal</i> , 2008, 40, 421-427.	1.3	19
31	Visualization of the Necking Initiation and Propagation Processes during Uniaxial Tensile Deformation of Crystalline Polymer Films via the Generation of Fluorescent Radicals. <i>ACS Macro Letters</i> , 2021, 10, 623-627.	2.3	19
32	Materials for future lithography (Invited Paper). , 2005, 5753, 1.		18
33	Poly(4-diphenylaminostyrene) with a well-defined polymer chain structure: Controllable optical and electrical properties. <i>Polymer</i> , 2010, 51, 1501-1506.	1.8	18
34	Spectral multitude and spectral dynamics reflect changing conjugation length in single molecules of oligophenylenevinylenes. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 10114.	1.3	18
35	Synthesis and luminescent properties of block copolymers based on polyfluorene and polytriphenylamine. <i>Polymer</i> , 2012, 53, 1444-1452.	1.8	18
36	Spider dragline silk composite films doped with linear and telechelic polyalanine: Effect of polyalanine on the structure and mechanical properties. <i>Scientific Reports</i> , 2018, 8, 3654.	1.6	17

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37	Turning control of a biped locomotion robot using nonlinear oscillators. , 2004, , .		16
38	Dynamic Network Formation of POSS-Pendant Polymer via Cage Scrambling Mediated by Fluoride Ion. <i>Macromolecules</i> , 2015, 48, 1636-1643.	2.2	16
39	Synthesis of diblock copolymers consisting of POSS-containing random methacrylate copolymers and polystyrene and their cross-linked microphase-separated structure via fluoride ion-mediated cage scrambling. <i>Polymer Chemistry</i> , 2017, 8, 2516-2527.	1.9	16
40	Three-component, negative-type, alkaline-developable, thermally stable, and photosensitive polymer based on poly(2,6-dihydroxy-1,5-naphthalene), a crosslinker, and a photoacid generator. <i>Journal of Polymer Science Part A</i> , 2004, 42, 2235-2240.	2.5	15
41	Charge transporting block copolymer for morphological control in light emitting device based on polymer blends. <i>Synthetic Metals</i> , 2010, 160, 1679-1682.	2.1	15
42	Chemoenzymatic modification of silk fibroin with poly(2,6-dimethyl-1,5-phenylene ether) using horseradish peroxidase. <i>RSC Advances</i> , 2016, 6, 28737-28744.	1.7	15
43	Chemoenzymatic synthesis of polypeptides consisting of periodic di- and tri-peptide motifs similar to elastin. <i>Polymer Chemistry</i> , 2018, 9, 2336-2344.	1.9	15
44	Synthesis of Diblock Copolymer Consisting of Poly(4-butyltriphenylamine) and Morphological Control in Photovoltaic Application. <i>Polymers</i> , 2011, 3, 1051-1064.	2.0	14
45	Periodic introduction of aromatic units in polypeptides via chemoenzymatic polymerization to yield specific secondary structures with high thermal stability. <i>Polymer Journal</i> , 2019, 51, 1287-1298.	1.3	13
46	Insights into the Stereospecificity in Papain-Mediated Chemoenzymatic Polymerization from Quantum Mechanics/Molecular Mechanics Simulations. <i>ACS Chemical Biology</i> , 2019, 14, 1280-1292.	1.6	13
47	Development of regenerated silk films coated with fluorinated polypeptides to achieve high water repellency and biodegradability in seawater. <i>Polymer Degradation and Stability</i> , 2019, 160, 96-101.	2.7	13
48	Stereo-Selective Synthesis of 5-Norbornene-2-ylidene-2-exo-norbornene-2-carboxylic Acidâ€”Rapid Isomerization and Kinetically Selective Hydrolysis. <i>International Journal of Organic Chemistry</i> , 2012, 02, 26-30.	0.3	13
49	Relaxation of the Plant Cell Wall Barrier via Zwitterionic Liquid Pretreatment for Micelleâ€Complexâ€Mediated DNA Delivery to Specific Plant Organelles. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	13
50	Facile Preparation of Macrocycles with Triphenylamine Backbone via Câ€N Coupling Reaction. <i>Chemistry Letters</i> , 2011, 40, 931-933.	0.7	12
51	Synthesis and characterization of poly(3-hexylthiophene)- block -poly(dimethylsiloxane) for photovoltaic application. <i>Polymer</i> , 2016, 92, 125-132.	1.8	12
52	Peptide-Based Polyion Complex Vesicles That Deliver Enzymes into Intact Plants To Provide Antibiotic Resistance without Genetic Modification. <i>Biomacromolecules</i> , 2021, 22, 1080-1090.	2.6	12
53	Synthesis of Poly(naphthylene ether) Containing Tetraphenylmethane Group with a Low Dielectric Constant. <i>Polymer Journal</i> , 2006, 38, 956-960.	1.3	11
54	Synthesis and Characterization of Biobased Polyesters Derived from Vanillin-based Schiff Base and Cinnamic Acid Derivatives. <i>Chemistry Letters</i> , 2016, 45, 439-441.	0.7	11

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55	Nanoscale Polyion Complex Vesicles for Delivery of Cargo Proteins and Cas9 Ribonucleoprotein Complexes to Plant Cells. <i>ACS Applied Nano Materials</i> , 2021, 4, 5630-5635.	2.4	11
56	Locomotion control of a multi-legged locomotion robot using oscillators. , 0, , .		10
57	A positive type alkaline developable thermally stable and photosensitive polymer based on partially O-methylated poly(2,6-dihydroxy-1,5-naphthylene), an acidolytic de-cross-linker, and a photoacid generator. <i>Polymer</i> , 2004, 45, 6873-6878.	1.8	10
58	Transition from quadrupedal to bipedal locomotion. , 2005, , .		10
59	A Negative Type Photosensitive Polymer Based on Poly(naphthylene ether), a Cross-Linker, and a Photoacid Generator with Low Dielectric Constant. <i>Polymer Journal</i> , 2007, 39, 442-447.	1.3	10
60	Synthesis of Poly(3-hexylthiophene)-b-poly(ethylene oxide) for Application to Photovoltaic Device. <i>Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi]</i> , 2010, 23, 405-406.	0.1	10
61	Synthesis of Triphenylamine Copolymers and Effect of Their Chemical Structures on Physical Properties. <i>Macromolecules</i> , 2011, 44, 5200-5208.	2.2	10
62	Dynamic turning control of a quadruped robot using nonlinear oscillators. , 0, , .		8
63	Fast Photorefractive Response in Triphenylamine-based Molecular Glass. <i>Chemistry Letters</i> , 2012, 41, 1541-1543.	0.7	8
64	Facile terminal functionalization of peptides by protease-catalyzed chemoenzymatic polymerization toward synthesis of polymeric architectures consisting of peptides. <i>Polymer Chemistry</i> , 2020, 11, 560-567.	1.9	8
65	Zwitterionic Polypeptides: Chemoenzymatic Synthesis and Loosening Function for Cellulose Crystals. <i>Biomacromolecules</i> , 2020, 21, 1785-1794.	2.6	8
66	Synthesis of poly(arylene ether sulfone): 18-Crown-6 catalyzed phase-transfer polycondensation of bisphenol A with 4,4'-dichlorodiphenyl sulfone. <i>Polymer Journal</i> , 2015, 47, 353-354.	1.3	7
67	Radical Copolymerization of Ferulic Acid Derivatives with Ethylenic Monomers. <i>Journal of Fiber Science and Technology</i> , 2016, 72, 74-79.	0.2	7
68	Chemoenzymatic Polymerization of <sc> </sc>-Serine Ethyl Ester in Aqueous Media without Side-Group Protection. <i>ACS Polymers Au</i> , 2022, 2, 147-156.	1.7	7
69	Tandem Type Polymerization, Synthesis and Characterization of Ordered Poly(amide~thioether) from 2,6-Dichlorophenyl Methacrylate, 4,4'-Thiobis(benzenethiol), and 4,4'-Oxydianiline. <i>Macromolecules</i> , 2003, 36, 1815-1818.	2.2	6
70	Preparation of poly(4-butyltriphenylamine) particles by chemical oxidative dispersion polymerization. <i>Colloid and Polymer Science</i> , 2008, 286, 313-318.	1.0	6
71	Hydrophobic Surface Construction by Phase-Separation of Fluorinated Block Copolymer for Immersion Lithography. <i>Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi]</i> , 2008, 21, 679-684.	0.1	6
72	Development of Reactive Oxygen Species-Triggered Degradable Nanoparticles Using Oligoproline-Containing Peptides. <i>Biomacromolecules</i> , 2020, 21, 4116-4122.	2.6	6

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73	Poly(alanine-nylon-alanine) as a bioplastic: chemoenzymatic synthesis, thermal properties and biological degradation effects. <i>Polymer Chemistry</i> , 2020, 11, 4920-4927.	1.9	6
74	Synthesis of methacrylate polymer bearing cyanate groups and its chemoselective reaction with amines. <i>Journal of Polymer Science Part A</i> , 2014, 52, 699-706.	2.5	5
75	Synthesis of polyisocyanurates by thermal rearrangement of polycyanurates. <i>Journal of Polymer Science Part A</i> , 2015, 53, 692-698.	2.5	5
76	Hole Transporting Properties of Cyclic Pentamer of 4-Butyltriphenylamine. <i>Chemistry Letters</i> , 2017, 46, 1145-1147.	0.7	5
77	Cellular internalization mechanism of novel Raman probes designed for plant cells. <i>RSC Chemical Biology</i> , 2020, 1, 204-208.	2.0	5
78	Computational study on the polymerization reaction of α -aminopeptidase for the synthesis of α -peptides. <i>RSC Advances</i> , 2020, 10, 17582-17592.	1.7	5
79	Synthetic Mitochondria-Targeting Peptides Incorporating β -Aminoisobutyric Acid with a Stable Amphiphilic Helix Conformation in Plant Cells. <i>ACS Biomaterials Science and Engineering</i> , 2021, 7, 1475-1484.	2.6	5
80	A study on optimal motion of a biped locomotion machine. <i>Artificial Life and Robotics</i> , 1999, 3, 55-60.	0.7	4
81	Synthesis and Characterization of Poly(ethylene Terephthalate) Oxide-poly(4-butyltriphenylamine) Block Copolymer. <i>Chemistry Letters</i> , 2008, 37, 350-351.	0.7	4
82	Synthesis of Polyfluorene Block Copolymers and Effect of Side Chain Group on Electroluminescent Device Performance. <i>Chemistry Letters</i> , 2012, 41, 257-259.	0.7	4
83	Synthesis and Characterization of Biobased Poly (Ether Benzoxazole) Derived from Vanillin. <i>Journal of Fiber Science and Technology</i> , 2016, 72, 89-95.	0.2	4
84	All-Peptide-Based Polyion Complex Vesicles: Facile Preparation and Encapsulation of the Protein in Active Form. <i>ACS Polymers Au</i> , 2021, 1, 30-38.	1.7	4
85	Synthesis of Polyfluorene-Polytriarylamine Block Copolymer with Emitting Part at Junction Point for Light Emitting Applications. <i>Open Journal of Organic Polymer Materials</i> , 2013, 03, 46-52.	2.0	4
86	Stability analysis of a simple walking model driven by a nonlinear oscillator. , 0, , .		3
87	Synthesis of Macrocyclic Aromatic Amines via C-N Coupling Reaction. Yuki Gosei Kagaku Kyokai Shi / <i>Journal of Synthetic Organic Chemistry</i> , 2011, 69, 169-170.	0.0	3
88	Synthesis and Evaluation of Adamantane-Containing Fluorinated Block Copolymers for Resist Modifiers in Immersion Lithography. <i>Journal of Photopolymer Science and Technology</i> = [Fotoporima Konwakai Shi], 2011, 24, 361-366.	0.1	3
89	Fabrication of porous film based on poly(2,6-dimethyl-1,4-phenylene ether) block copolymer by supercritical carbon dioxide treatment. <i>Reactive and Functional Polymers</i> , 2011, 71, 958-963.	2.0	3
90	Refractive Index Modulation by Tunable Thermal Rearrangement of Polycyanurates. <i>Chemistry Letters</i> , 2015, 44, 1110-1112.	0.7	3

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91	Synthesis and Characterization of Triarylamine-Based Block Copolymers by Combination of C-N Coupling and ATRP for Photorefractive Applications. Open Journal of Organic Polymer Materials, 2012, 02, 53-62.	2.0	3
92	A silk composite fiber reinforced by telechelic-type polyalanine and its strengthening mechanism. Polymer Chemistry, 2022, 13, 1869-1879.	1.9	3
93	Stability analysis of a simple walking model driven by a rhythmic signal. , 0, , .		2
94	Dynamic turning control of a quadruped robot using oscillator network. , 2004, , .		2
95	Supercritical CO ₂ for high resolution photoresist development. , 2006, , .		2
96	A Negative-type Photosensitive Polymer Based on Poly(2,6-dimethyl-1,4-phenylene ether), a Cross-Linker and a Photoacid Generator. Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi], 2007, 20, 187-188.	0.1	2
97	Synthesis and Characterization of Triphenylamine-based Organic Photorefractive Glasses. Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi], 2011, 24, 329-335.	0.1	2
98	Fabrication of Ordered Poly[1,6-bis(3-nonyl-9-carbazolyl)-2,4-hexadiyne] Thin Film via Simple Spin-coating Process. Chemistry Letters, 2013, 42, 1217-1219.	0.7	2
99	Protease-Catalyzed Polymerization of Tripeptide Esters Containing Unnatural Amino Acids: β -Disubstituted and α -Alkylated Amino Acids. ACS Symposium Series, 2018, , 95-105.	0.5	2
100	Polyfluorene-Polytriarylamine Block Copolymer as an Additive for Electroluminescent Devices Based on Polymer Blends. Open Journal of Organic Polymer Materials, 2013, 03, 41-45.	2.0	2
101	Stereo-Selective Synthesis of exo-Norbornene Derivatives for Resist Materials.. Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi], 2009, 22, 365-370.	0.1	1
102	Electron Spectroscopy of Ultrathin Cycloalkane Films on Graphite (0001): Molecular Orbitals, Conformation, and Orientation. Chemistry Letters, 2013, 42, 1048-1050.	0.7	1
103	A deterministic annealing algorithm for a combinatorial optimization problem by the use of replicator equations. , 0, , .		0
104	A New Negative-Type Photosensitive Polymer Based on Poly (2,6-dihydroxy-1,5-naphthalene), a Cross-Linker, and a Photoacid Generator. Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi], 2003, 16, 285-286.	0.1	0
105	Feedback control of a simple walking model driven by an oscillator. , 0, , .		0
106	Synthesis of Block Copolymer Based on Polyfluorenes and Application to Luminescent Materials. Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi], 2011, 24, 343-344.	0.1	0
107	Synthesis of Polytriphenylamine with Emitting Part at Terminal for Light Emitting Application. Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi], 2012, 25, 333-334.	0.1	0
108	Synthesis of Polypeptides. Green Chemistry and Sustainable Technology, 2019, , 233-265.	0.4	0

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109	A Negative-type Photosensitive Polymer Based on Poly(2,6-dimethyl-1,4-phenylene ether), a Cross-Linker and a Photoacid Generator. Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi], 2007, 2, 187-188.	0.1	0
110	Relaxation of the Plant Cell Wall Barrier via Zwitterionic Liquid Pretreatment for Micelleâ€Complexâ€Mediated DNA Delivery to Specific Plant Organelles. Angewandte Chemie, 0, , .	1.6	0