Kazuaki Kudo

List of Publications by Year
in descending order

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118 papers	2,548 citations	159358 30 h-index	233125 45 g-index
142 all docs	142 docs citations	142 times ranked	1635 citing authors

#	Article	IF	Citations
1	Enantioselective Nitroâ€Michael Addition Catalyzed by Nâ€Terminal Guanidinylated Helical Peptide. Advanced Synthesis and Catalysis, 2022, 364, 82-86.	2.1	6
2	Iterative synthesis of nitrogen-containing polyketide via oxime intermediates. RSC Advances, 2022, 12, 5275-5279.	1.7	1
3	Spontaneous substitution of azulene-derived benzylic alcohols by thiols and its application to labeling/protection of biothiols. Tetrahedron, 2021, 84, 131998.	1.0	1
4	Synthesis, characterization of calix[5]azulene and its complexation with pyridinium salts. Tetrahedron, 2021, 88, 132146.	1.0	4
5	Solid-Phase Biomimetic Synthesis of Polyketide. Journal of Organic Chemistry, 2021, 86, 17307-17317.	1.7	3
6	Iterative Polyketide Synthesis via a Consecutive Carbonyl-Protecting Strategy. Journal of Organic Chemistry, 2018, 83, 4279-4285.	1.7	10
7	Kinetic Resolution of Ansa Cyclophanes by Peptideâ€Catalyzed Aldol/Retroâ€Aldol Reactions. European Journal of Organic Chemistry, 2018, 2018, 5278-5281.	1.2	13
8	Biomimetic iterative method for polyketide synthesis. Chemical Communications, 2017, 53, 8645-8648.	2.2	12
9	Development of Selective Peptide Catalysts with Secondary Structural Frameworks. Accounts of Chemical Research, 2017, 50, 2429-2439.	7.6	42
10	Helical-Peptide-Catalyzed Enantioselective Michael Addition Reactions and Their Mechanistic Insights. Journal of Organic Chemistry, 2016, 81, 6343-6356.	1.7	45
11	Exploration of Structural Frameworks for Reactive and Enantioselective Peptide Catalysts by Library Screenings. Journal of Organic Chemistry, 2016, 81, 9396-9401.	1.7	11
12	Library Screening in Aqueous Media To Develop a Highly Active Peptide Catalyst for Enantioselective Michael Addition of a Malonate. European Journal of Organic Chemistry, 2016, 2016, 4460-4464.	1.2	7
13	Determination of the Absolute Configuration of Side Chains of Basic Amino Acid Residues Using the Water-Soluble Porphyrin-Based Exciton Chirality Method. Journal of Physical Chemistry B, 2016, 120, 10280-10287.	1.2	4
14	Solvolysis of Formylphenyl Esters by a Bifunctional Peptide Catalyst. Chemistry Letters, 2016, 45, 300-302.	0.7	4
15	Asymmetric Epoxidation of Enones by Peptide-Based Catalyst: AÂStrategy Inverting JuliÃ¡â€“Colonna Stereoselectivity. Synlett, 2016, 27, 1217-1222.	1.0	14
16	Peptideâ€Catalyzed Desymmetrization of an Achiral Ferrocenyl Compound To Induce Planar Chirality. European Journal of Organic Chemistry, 2015, 2015, 3894-3898.	1.2	11
17	Kinetic Resolution of a Planarâ€Chiral [2.2]Paracyclophane Derivative by Helicalâ€Peptideâ€Catalyzed Michael Addition of Nitromethane. European Journal of Organic Chemistry, 2015, 2015, 5055-5059.	1.2	23
18	Histidineâ€Containing Peptide Catalysts Developed by a Facile Library Screening Method. Angewandte Chemie - International Edition, 2015, 54, 1822-1826.	7.2	36

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19	Development of a Peptideâ€Based Primary Aminocatalyst with a Helical Structure. Asian Journal of Organic Chemistry, 2014, 3, 514-522.	1.3	16
20	Peptide-catalyzed kinetic resolution of planar-chiral metallocenes. Chemical Communications, 2014, 50, 7893-7896.	2.2	24
21	Peptide-catalyzed consecutive 1,6- and 1,4-additions of thiols to Î±,Î²,Î³,Î´-unsaturated aldehydes. Organic and Biomolecular Chemistry, 2014, 12, 3581-3585.	1.5	24
22	Uptake and Electrochemical Ejection of Cesium Ion by a Prussian Blue-modified Electrode. Chemistry Letters, 2014, 43, 1281-1283.	0.7	10
23	Peptideâ€Catalyzed Regioâ€and Enantioselective Reduction of Î±,Î²,Î³,Î´â€Unsaturated Aldehydes. Angewandte Chemie - International Edition, 2013, 52, 11585-11588.	7.2	42
24	Peptide-Catalyzed Diastereo- and Enantioselective Cyclopropanation of Aromatic Î±,Î²-Unsaturated Aldehydes. Organic Letters, 2013, 15, 4964-4967.	2.4	31
25	Graft-type polymer electrolyte membranes for fuel cells prepared through radiation-induced graft polymerization into alicyclic polybenzimidazoles. Polymer, 2013, 54, 4570-4577.	1.8	5
26	Asymmetric Î±â€Amination of Aldehydes by a Recyclable Resinâ€Supported Peptide Catalyst. Advanced Synthesis and Catalysis, 2013, 355, 294-296.	2.1	8
27	Transformation of Gold(I)â€“cyclo[â€“Metâ€“Metâ€“] Complex Supramolecular Fibers into Aligned Gold Nanoparticles. Chemistry Letters, 2013, 42, 601-603.	0.7	0
28	Effect of unsymmetrical spiro dianhydride structure on properties of fully aliphatic polyimides. High Performance Polymers, 2012, 24, 418-424.	0.8	7
29	Construction of an Allâ€Carbon Quaternary Stereocenter by the Peptideâ€Catalyzed Asymmetric Michael Addition of Nitromethane to Î²â€Disubstituted Î±,Î²â€Unsaturated Aldehydes. Angewandte Chemie - International Edition, 2012, 51, 12786-12789.	7.2	75
30	A trifunctional photopatterning component derived from cysteine: fabrication of a deposited silver micropattern. Journal of Materials Chemistry, 2012, 22, 3139.	6.7	5
31	Asymmetric Michael addition of boronic acids to a Î³-hydroxy-Î±,Î²-unsaturated aldehyde catalyzed by resin-supported peptide. Organic and Biomolecular Chemistry, 2012, 10, 4839.	1.5	23
32	Asymmetric induction by helical poly(amino acid)s in cyanosilylation of aldehydes. Tetrahedron Letters, 2012, 53, 5981-5983.	0.7	11
33	Asymmetric one-pot sequential Friedelâ€“Crafts-type alkylation and Î±-oxyamination catalyzed by a peptide and an enzyme. Beilstein Journal of Organic Chemistry, 2012, 8, 1333-1337.	1.3	30
34	Constitutionally isomeric alicyclic polyimides: Origin of siteselectivity in the reaction of unsymmetrical dianhydride and structureâ€derived difference in physical properties. Journal of Polymer Science Part A, 2012, 50, 4246-4254.	2.5	3
35	Effect of the Helical Tether of a Resinâ€Supported Peptide Catalyst for Friedelâ€“Craftsâ€Type Alkylation in Water. Advanced Synthesis and Catalysis, 2012, 354, 1280-1286.	2.1	31
36	Preparation and characterization of nanoporous films derived from alicyclic copolyimides having pendent poly(propyleneglycol) groups. Polymer, 2012, 53, 1328-1338.	1.8	15

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37	Peptide/Laccase Cocatalyzed Asymmetric Î±-Oxyamination of Aldehydes. Organic Letters, 2011, 13, 3498-3501.	2.4	33
38	Structureâ€“property relationships for partially aliphatic polyimides. Journal of Polymer Research, 2011, 18, 1111-1117.	1.2	39
39	Nanoporous thin films of fully alicyclic polyimides. Macromolecular Research, 2011, 19, 1272-1277.	1.0	10
40	Asymmetric Epoxidation of Î±,Î²â€²Unsaturated Aldehydes in Aqueous Media Catalyzed by Resinâ€Supported Peptideâ€•Containing Unnatural Amino Acids. Advanced Synthesis and Catalysis, 2011, 353, 843-847.	2.1	41
41	Sequential oxidation/asymmetric aldol reaction of primary alcohols by resin-supported catalysts. Tetrahedron Letters, 2011, 52, 770-773.	0.7	15
42	Preparation and Characterization of Nanoporous Thin Films from Fully Aliphatic Polyimides. Journal of Nanoscience and Nanotechnology, 2011, 11, 6141-6147.	0.9	5
43	Synthesis of Indenes by Intramolecular Morita-Baylis-Hillman Reaction in Aqueous Media Catalyzed by Resin-Supported Proline. Synlett, 2011, 2011, 817-820.	1.0	3
44	Spontaneous Nanoaggregate Formation of Amphiphilic Poly(amide acid)s in Water. Chemistry Letters, 2010, 39, 1106-1107.	0.7	2
45	Nanoaggregate Formation of Amphiphilic Alternating and Random Copolyimides in Water. Chemistry Letters, 2010, 39, 1285-1287.	0.7	3
46	Efficient Asymmetric Î±-Oxyamination of Aldehydes by Resin-Supported Peptide Catalyst in Aqueous Media. Organic Letters, 2010, 12, 1804-1807.	2.4	75
47	One-pot sequential alcohol oxidation and asymmetric Î±-oxyamination in aqueous media using recyclable resin-supported peptide catalyst. Chemical Communications, 2010, 46, 8040.	2.2	43
48	Friedelâ€“Crafts-type alkylation in aqueous media using resin-supported peptide catalyst having polyleucine. Tetrahedron Letters, 2009, 50, 5602-5604.	0.7	43
49	Asymmetric transfer hydrogenation in aqueous media catalyzed by resin-supported peptide having a polyleucine tether. Tetrahedron: Asymmetry, 2009, 20, 461-466.	1.8	43
50	Cyclo[-His-His-] Derived C2-Symmetric Diketopiperazine as Chiral Ligand for Asymmetric Diels-Alder Reactions. Heterocycles, 2009, 78, 1171.	0.4	10
51	Organocatalytic Asymmetric Transfer Hydrogenation in Aqueous Media Using Resin-Supported Peptide Having a Polyleucine Tether. Organic Letters, 2008, 10, 2035-2037.	2.4	72
52	Supramolecular Control of Split-GFP Reassembly by Conjugation of Î²-Cyclodextrin and Coumarin Units. Journal of the American Chemical Society, 2008, 130, 9574-9582.	6.6	42
53	Glucose Responsive Two-step Release of Hydrogel-immobilized Protein. Chemistry Letters, 2008, 37, 582-583.	0.7	2
54	Orientation Control of Self-stacking <scp>d</scp>,<scp>l</scp>-Alternating Cyclic Octa-Î±-peptide through Multiple Electrostatic Interactions. Chemistry Letters, 2007, 36, 1070-1071.	0.7	5

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55	Reversible Immobilization of Protein into Hydrogel Using Designed Coiled-coil Peptides. Chemistry Letters, 2007, 36, 1320-1321.	0.7	5
56	Resin-supported acid- and base-catalyzed one-pot sequential reaction including an enantioselective step. Tetrahedron Letters, 2007, 48, 985-987.	0.7	34
57	Synthesis of Alq3-pendent Soluble Polymers and Their Application to Organic Light Emitting Diode. Kobunshi Ronbunshu, 2006, 63, 696-703.	0.2	0
58	Regulation of Catalytic Activity of Peptideâ€“Heme Conjugate by Conformational Change with Trifluoroethanol. Chemistry Letters, 2006, 35, 584-585.	0.7	0
59	One-Pot Synthesis of an Alternating Copolyimide Based on Regioselective Reaction of a Non-Symmetrical Alicyclic Dianhydride. Macromolecular Rapid Communications, 2006, 27, 1430-1436.	2.0	10
60	Back Cover: Macromol. Rapid Commun. 17/2006. Macromolecular Rapid Communications, 2006, 27, 1504-1504.	2.0	0
61	Synthesis of Blue Emitting Alicyclic Polyimides using One-pot Alternating Copolymerization Method. High Performance Polymers, 2006, 18, 749-759.	0.8	6
62	Design and Synthesis of Semi-Artificial Myoglobin Possessing DNA-Binding Peptides on Heme Propionates. Bulletin of the Chemical Society of Japan, 2005, 78, 1749-1756.	2.0	17
63	Direct asymmetric aldol reaction in aqueous media using polymer-supported peptide. Tetrahedron Letters, 2005, 46, 8185-8187.	0.7	127
64	Soluble Polymer Complexes Having AlQ3-Type Pendent Groups. Macromolecular Rapid Communications, 2004, 25, 1171-1174.	2.0	30
65	De Novo Design, Synthesis, and Function of Semiartificial Myoglobin Conjugated with Coiled-Coil Two-Î±-Helix Peptides. Chemistry - A European Journal, 2004, 10, 3717-3726.	1.7	10
66	Artificial Assembly of Myoglobin and Flavodoxin Reductase Using Designed Coiled-coil Peptides. Chemistry Letters, 2004, 33, 1202-1203.	0.7	3
67	Design of FAD-binding Peptide Using a Combinatorial Î±-Helix Peptide Library. Chemistry Letters, 2004, 33, 978-979.	0.7	3
68	Synthesis and Properties of Structurally Ordered Alicyclic Polyimides.. Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi], 2002, 15, 215-217.	0.1	5
69	Exo-selective asymmetric diels-alder reaction of acrylate ester. Chirality, 2002, 14, 727-730.	1.3	11
70	Synthesis of a novel photoresponsive axially chiral phosphine ligand containing an arylazo group and its application to palladium-catalyzed asymmetric allylic alkylation. Chirality, 2002, 14, 724-726.	1.3	20
71	Synthesis of optically active alicyclic polyimides from a chiral, nonracemic dianhydride. Journal of Polymer Science Part A, 2002, 40, 4038-4044.	2.5	23
72	Factors affecting photosensitivity enhancement of chemically amplified photoresists by an acid amplifier. Journal of Materials Chemistry, 2001, 11, 295-301.	6.7	12

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73	First Synthesis of Both â€œHead-to-Headâ€•and â€œHead-to-Tailâ€•Polyimides Using a Common Unsymmetric Alicyclic Tetracarboxylic Dianhydride. Bulletin of the Chemical Society of Japan, 2001, 74, 1767-1773.	2.0	10
74	Unexpected Formation of Novel [4.3.3]Propellane-type Trilactone by Dehydration of Aliphatic Tetracarboxylic Acid. Chemistry Letters, 2000, 29, 328-329.	0.7	2
75	A study on the effect of spirocyclic structures in the main chain on the physical properties of copolyimides. Macromolecular Rapid Communications, 2000, 21, 1166-1170.	2.0	17
76	Synthesis and properties of novel soluble polyimides having an unsymmetric spiro tricyclic dianhydride unit. Macromolecular Chemistry and Physics, 2000, 201, 2289-2297.	1.1	62
77	3-Phenyl-3,3-ethylenedioxy-1-propyl Sulfonates as Acid Amplifiers To Enhance the Photosensitivity of Positive-Working Photoresists. Chemistry of Materials, 1999, 11, 2119-2125.	3.2	34
78	Acid Proliferation Processes of 3-Phenyl-3,3-ethylenedioxypropyl Sulfonates in Photosensitive Polymer Films Leading to â€œAir Infectionâ€• Chemistry of Materials, 1999, 11, 2126-2131.	3.2	13
79	Synthesis of 2,8-Dioxaspiro[4.5]decane-1,3,7,9-tetrone and the Reactions with Amines. Bulletin of the Chemical Society of Japan, 1999, 72, 1075-1081.	2.0	7
80	Preparation of soluble tetrabenzoporphyrins with substituents at the peripheral positions. Inorganica Chimica Acta, 1998, 277, 151-156.	1.2	13
81	Polymethacrylates with benzylidenephthalimidine side chains, 2. Photocontrol of alignment of a nematic liquid crystal. Macromolecular Chemistry and Physics, 1998, 199, 375-383.	1.1	20
82	Autocatalytic Fragmentation of Acetoacetate Derivatives as Acid Amplifiers to Proliferate Acid Molecules. Journal of the American Chemical Society, 1998, 120, 37-45.	6.6	53
83	Novel Resist Materials Using Acid Amplifiers Part I.. Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi], 1997, 10, 313-314.	0.1	2
84	Novel Resist Materials Using Acid Amplifiers. Part II.. Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi], 1997, 10, 315-316.	0.1	18
85	Photoreactivity of Polymers with Regioisomeric Cinnamate Side Chains and Their Ability To Regulate Liquid Crystal Alignment. Macromolecules, 1997, 30, 903-911.	2.2	241
86	Highly Stereoselective Cationic Cyclization Assisted by a Sulfenyl Group. Scope, Limitation, and Mechanism. Journal of Organic Chemistry, 1996, 61, 494-502.	1.7	13
87	Alignment Photoregulation of a Nematic Liquid Crystal by Surface Adsorption of Aminoalkylated Azobenzenes. Israel Journal of Chemistry, 1996, 36, 371-378.	1.0	7
88	Acid-catalyzed Rearrangement for Monitoring the Migration of Acids in Polymer Films.. Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi], 1996, 9, 25-28.	0.1	9
89	Liquid Crystal Alignment Regulation Using Photocrosslinkable Polymers with Azide Residues.. Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi], 1996, 9, 49-52.	0.1	7
90	Effect of Phenolic Hydroxyl Residues on the Improvement of Acid-proliferation-type Photoimaging Materials.. Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi], 1996, 9, 29-30.	0.1	5

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91	Relationship between Photoreactivity and Ability to Regulate Liquid Crystal Alignment of Polymers with Cinnamate Side Chains.. Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi], 1996, 9, 41-48.	0.1	3
92	Photopolymers Having Benzylidene-phthalimidine Side Chains.. Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi], 1996, 9, 53-56.	0.1	0
93	Î±-Sulfenyl-Directed Ring-Opening Reactions of Epoxides. 1. Highly Regio- and Stereoselective Reaction with Organo-Aluminum Reagents and Application to the Synthesis of an Aggregation Pheromone. Bulletin of the Chemical Society of Japan, 1996, 69, 2095-2105.	2.0	39
94	Command surfaces, 20. Fixation of surface-assisted homogeneous alignment of nematic liquid crystals by cationic photopolymerization. Macromolecular Rapid Communications, 1996, 17, 545-551.	2.0	12
95	Command surfaces 12 [1]. Factors affecting in-plane photoregulation of liquid crystal alignment by surface azobenzenes on a silica substrate. Liquid Crystals, 1996, 20, 423-435.	0.9	47
96	Autocatalytic Decomposition of A Î²-Tosyloxy-Ketone Acetal as an Acid Amplifier. Molecular Crystals and Liquid Crystals, 1996, 280, 307-312.	0.3	13
97	Photosensitive Characteristics of Poly(Methacrylates) Containing Benzylidenephthalimidine Moieties on the Side Chain. Molecular Crystals and Liquid Crystals, 1996, 280, 97-102.	0.3	0
98	Command surfaces 15 [1]. Photoregulation of liquid crystal alignment by cinnamoyl residues on a silica surface. Liquid Crystals, 1996, 20, 171-176.	0.9	36
99	Command surfaces 14 [1]. Photoregulation of in-plane alignment of a liquid crystal by the photoisomerization of stilbenes chemisorbed on a substrate silica surface. Liquid Crystals, 1996, 20, 161-169.	0.9	31
100	Enhancement of the senesitivity of chemical-amplification-type photoimaging materials by .BETA.-tosyloxyketone acetals.. Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi], 1995, 8, 45-46.	0.1	10
101	Command surfaces 13(1): photoregulation of in-plane alignment of nematic liquid crystals by cinnamate pendant polymer films.. Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi], 1995, 8, 75-78.	0.1	21
102	Sensitivity enhancement of chemical-amplification-type photoimaging materials by acetoacetic acid derivatives.. Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi], 1995, 8, 43-44.	0.1	12
103	A Novel Concept of Acid Proliferation. Autocatalytic Fragmentation of an Acetoacetate Derivative as an Acid Amplifier. Chemistry Letters, 1995, 24, 551-552.	0.7	27
104	Command surfaces, 10. Novel polymethacrylates with laterally attached azobenzene groups displaying photoinduced optical anisotropy. Macromolecular Rapid Communications, 1995, 16, 35-41.	2.0	64
105	Photoregulation of Liquid Crystal Alignment by Photoisomerizable Molecular Layers. Molecular Crystals and Liquid Crystals, 1995, 267, 381-386.	0.3	6
106	Azimuthal Photoregulation of a Liquid Crystal with an Azobenzene-Modified Polyimide Langmuir-Blodgett Monolayer. Langmuir, 1995, 11, 1033-1037.	1.6	45
107	Surface-Assisted Photolithography To Form Anisotropic Dye Layers as a New Horizon of Command Surfaces. Langmuir, 1995, 11, 2341-2343.	1.6	71
108	Selective Synthetic Reactions Applying Neighboring Group Participation.. Yuki Gosei Kagaku Kyokaishi/Journal of Synthetic Organic Chemistry, 1995, 53, 116-121.	0.0	0

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109	Remote asymmetric induction using neighboring group participation of a sulfenyl group. Tetrahedron, 1994, 50, 8317-8336.	1.0	12
110	Photocontrol of azimuthal orientation of nematic liquid crystals by surface-modified poly(vinyl) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 70 1994, 7, 129-132.	0.1	2
111	Highly diastereoselective aldol reaction of benzaldehyde derivatives having a chiral ortho substituent with silylated carbon nucleophiles. Tetrahedron Letters, 1993, 34, 7623-7626.	0.7	9
112	Highly stereoselective cationic cyclization assisted by a sulfenyl group. Tetrahedron Letters, 1993, 34, 7063-7066.	0.7	6
113	Anti-selective reaction of .alpha.-sulfenyl acetals with silylated carbon nucleophiles. Scope, limitation, and mechanism. Journal of Organic Chemistry, 1993, 58, 579-587.	1.7	26
114	A Highly Regioselective Reaction of Allylic Acetates with Silylated Carbon Nucleophiles Directed by a Sulfenyl Group. Scope, Limitation, and Mechanistic Aspects. Bulletin of the Chemical Society of Japan, 1993, 66, 848-856.	2.0	19
115	Highly Regioselective Pinacol Rearrangement of Sulfenylmethylated Glycols. Chemistry Letters, 1992, 21, 1449-1452.	0.7	8
116	A highly regioselective reaction of allylic acetates with silylated carbon nucleophiles directed by a sulfenyl group. Tetrahedron Letters, 1991, 32, 4311-4312.	0.7	17
117	Anti-Cram Selective Reaction of Î±-Sulfenyl Acetals with Silylated Carbon Nucleophiles. Chemistry Letters, 1990, 19, 941-944.	0.7	9
118	Facile Synthesis of Selectively Monoprotected Unsymmetrical 1,3-Diketones from 2,2-Dimethoxyethyl Esters. Synthetic Communications, 1990, 20, 2197-2202.	1.1	8