

Yoshihiro Kikkawa

List of Publications by Year in descending order

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100
papers

3,380
citations

126708

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161609

54
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106
all docs

106
docs citations

106
times ranked

3451
citing authors

#	ARTICLE	IF	CITATIONS
1	Well-organised two-dimensional self-assembly controlled by in situ formation of a Cu(ii)-coordinated rufigallol derivative: a scanning tunnelling microscopy study. <i>Chemical Communications</i> , 2022, 58, 1752-1755.	2.2	8
2	Effect of Surface Properties on the Photo-Induced Crawling Motion of Azobenzene Crystals on Glass Surfaces. <i>Frontiers in Chemistry</i> , 2021, 9, 684767.	1.8	8
3	Photo-Induced Crawling Motion of Azobenzene Crystals on Modified Gold Surfaces. <i>Langmuir</i> , 2021, 37, 14177-14185.	1.6	3
4	<i>meso</i>-Free dipyrins: Formation of assembled structures including a 2D ordered pattern. <i>Journal of Porphyrins and Phthalocyanines</i> , 2020, 24, 75-83.	0.4	0
5	Supramolecular Organization of Model Polycyclic Aromatic Molecules: Comparison of 2D and 3D Assemblies. <i>ChemNanoMat</i> , 2020, 6, 68-72.	1.5	3
6	Dynamic host-guest behavior in halogen-bonded two-dimensional molecular networks investigated by scanning tunneling microscopy at the solid/liquid interface. <i>Nanoscale Advances</i> , 2020, 2, 4895-4901.	2.2	7
7	Coordination-Driven Construction of Porphyrin Nanoribbons at a Highly Oriented Pyrolytic Graphite (HOPG)/Liquid Interface. <i>Journal of the American Chemical Society</i> , 2019, 141, 10137-10141.	6.6	15
8	Scanning Probe Microscopy (SPM)., 2019, , 155-164.		0
9	Controlled Growth of Porphyrin Wires at a Solid-Liquid Interface. <i>Helvetica Chimica Acta</i> , 2019, 102, e1900058.	1.0	2
10	Hexagonal array formation by intermolecular halogen bonding using a binary blend of linear building blocks: STM study. <i>Chemical Communications</i> , 2019, 55, 3955-3958.	2.2	20
11	Self-assembled 2D patterns of structural isomers in isobutenyl compounds revealed by STM at solid/liquid interface. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2018, 537, 580-590.	2.3	5
12	Synthesis, Isolation, and Properties of All Head-to-Tail Cyclic Poly(3-hexylthiophene): Fully Delocalized Exciton over the Defect-Free Ring Polymer. <i>Macromolecules</i> , 2018, 51, 9284-9293.	2.2	17
13	High-fidelity self-assembly pathways for hydrogen-bonding molecular semiconductors. <i>Scientific Reports</i> , 2017, 7, 43098.	1.6	34
14	Odd-even effect in two dimensions induced by the bicomponent blends of isobutenyl compounds. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 13579-13584.	1.3	6
15	Synthesis and Study at a Solid/Liquid Interface of Porphyrin Dimers Linked by Metal Ions. <i>Inorganic Chemistry</i> , 2017, 56, 15081-15090.	1.9	10
16	Photo-triggered enzymatic degradation of biodegradable polymers. <i>RSC Advances</i> , 2017, 7, 55720-55724.	1.7	16
17	Synthesis of porphyrins bearing alkynyl- or arylalkynyl-meso-groups. <i>Journal of Porphyrins and Phthalocyanines</i> , 2016, 20, 292-301.	0.4	0
18	Ester-Linked Alkyl Chain Effect on the 2D Structures of Isobutenyl Compounds: Scanning Tunneling Microscopic Study. <i>Bulletin of the Chemical Society of Japan</i> , 2015, 88, 834-842.	2.0	3

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19	Trapping Nanostructures on Surfaces through Weak Interactions. Chemistry - A European Journal, 2015, 21, 13437-13444.	1.7	6
20	Self-organized porphyrin arrays on surfaces: the case of hydrophilic side chains and polar surfaces. Journal of Porphyrins and Phthalocyanines, 2014, 18, 67-75.	0.4	6
21	Supramolecular Engineering of Oligothiophene Nanorods without Insulators: Hierarchical Association of Rosettes and Photovoltaic Properties. Chemistry - A European Journal, 2014, 20, 16128-16137.	1.7	41
22	Bicomponent blend-directed amplification of the alkyl chain effect on the 2D structures. Chemical Communications, 2014, 50, 13146-13149.	2.2	12
23	Atomic Force Microscopic Study of Chitinase Binding onto Chitin and Cellulose Surfaces. Biomacromolecules, 2014, 15, 1074-1077.	2.6	12
24	2D Structural Modulation by Odd-Even Effect of Alkyl Chains Revealed by Scanning Tunneling Microscopy at Solid/Liquid Interface. Transactions of the Materials Research Society of Japan, 2014, 39, 99-104.	0.2	4
25	Enzymatic degradation of polyester films by a cutinase-like enzyme from <i>Pseudozyma antarctica</i> : surface plasmon resonance and atomic force microscopy study. Applied Microbiology and Biotechnology, 2013, 97, 8591-8598.	1.7	33
26	Tuning the enzymatic hydrolysis of biodegradable polyesters and its application to surface patterning. Journal of Materials Chemistry A, 2013, 1, 4667.	5.2	12
27	Controlled Stacking and Unstacking of Peripheral Chlorophyll Units Drives the Spring-Like Contraction and Expansion of a Semi-Artificial Helical Polymer. Chemistry - A European Journal, 2013, 19, 1592-1598.	1.7	20
28	Formation of 2D structures and their transformation by external stimuli: a scanning tunneling microscopy study. Polymer Journal, 2013, 45, 255-260.	1.3	15
29	Nanoscope Imaging of <i>meso</i> - <i>h</i> -Tetraalkylporphyrins Prepared in High Yields Enabled by Montmorillonite K10 and 3-Å... Molecular Sieves. Chemistry - A European Journal, 2013, 19, 11293-11300.	1.7	20
30	Two-dimensional Structures of Isobutenyl Ether Compounds Possessing Dodecyl and Tridecyl Chains: Effects of Solvent and Tandem Claisen Rearrangement. Chemistry Letters, 2012, 41, 1196-1198.	0.7	5
31	The Mutual Separation of Rare Earth Elements Utilizing the Reaction of Corresponding Complexes Coordinated by Tris(2-aminoethyl)amine with 3-Ethoxysalicylaldehyde. Waste and Biomass Valorization, 2012, 3, 451-458.	1.8	1
32	Effects of alkyl chain length, solvent and tandem Claisen rearrangement on two-dimensional structures of noncyclic isobutenyl compounds: scanning tunnelling microscopic study. Organic and Biomolecular Chemistry, 2012, 10, 8087.	1.5	18
33	Dynamic Assembly of Porphyrin Wires Trapped on a Highly Oriented Pyrolytic Graphite Surface. Organic Letters, 2012, 14, 1998-2001.	2.4	14
34	Control over Hierarchy Levels in the Self-Assembly of Stackable Nanotoroids. Journal of the American Chemical Society, 2012, 134, 18205-18208.	6.6	143
35	Low Molecular Weight Gelators Based on Biosurfactants, Cellobiose Lipids by <i>Cryptococcus humicola</i> . Journal of Oleo Science, 2012, 61, 659-664.	0.6	16
36	Self-Organization of Hydrogen Bonding Naphthalene Chromophores into π -Type Nanorings and π -Type Nanorods: Impact of Regioisomerism. Angewandte Chemie - International Edition, 2012, 51, 6643-6647.	7.2	140

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37	Supramolecularly Engineered Perylene Bisimide Assemblies Exhibiting Thermal Transition from Columnar to Multilamellar Structures. <i>Journal of the American Chemical Society</i> , 2012, 134, 7983-7994.	6.6	127
38	Photoreversible Supramolecular Polymerisation and Hierarchical Organization of Hydrogen-Bonded Supramolecular Copolymers Composed of Diarylethenes and Oligothiophenes. <i>Chemistry - A European Journal</i> , 2012, 18, 2244-2253.	1.7	53
39	Metallation of bipyridine derivatives substituted at meta position by alkyl chains: effects on the 2D structures. <i>Supramolecular Chemistry</i> , 2011, 23, 9-12.	1.5	5
40	Binding ability of chitinase onto cellulose: an atomic force microscopy study. <i>Polymer Journal</i> , 2011, 43, 742-744.	1.3	6
41	Rational Construction of Perylene Bisimide Columnar Superstructures with a Biased Helical Sense. <i>Chemistry - A European Journal</i> , 2011, 17, 3598-3608.	1.7	68
42	Catenation of Self-Assembled Nanorings. <i>Chemistry - A European Journal</i> , 2011, 17, 13657-13660.	1.7	31
43	Synthesis, characterization and emission properties of yttrium(III) and europium(III) complexes of a tripodal heptadentate Schiff-base ligand N[CH ₂ CH ₂ NCH(2-OH-3-MeC ₆ H ₃)] ₃ . <i>Inorganica Chimica Acta</i> , 2011, 367, 225-229.	1.2	22
44	Rationally controlled helical organization of a multiple-hydrogen-bonding oligothiophene: guest-induced transition of helical-to-twisted ribbons. <i>Chemical Communications</i> , 2011, 47, 454-456.	2.2	17
45	Two-Dimensional Organization of Mono- and Bisurea Supramolecular Polymers Studied by Scanning Tunneling Microscopy. <i>Journal of Nanoscience and Nanotechnology</i> , 2010, 10, 803-808.	0.9	6
46	Noncyclic Isobutenyl Compounds with Esters and Amides: Effect of Intramolecular Hydrogen Bonds Tuned by Tandem Claisen Rearrangement on the Two-dimensional Structures. <i>Chemistry Letters</i> , 2010, 39, 1039-1041.	0.7	6
47	Rational Design of Nanofibers and Nanorings through Complementary Hydrogen-Bonding Interactions of Functional π Systems. <i>Chemistry - A European Journal</i> , 2010, 16, 8652-8661.	1.7	67
48	Supramolecularly Engineered Aggregation of a Dipolar Dye: Vesicular and Ribbonlike Architectures. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 9990-9994.	7.2	73
49	Surface Patterning of Poly(ϵ -caprolactone): Epitaxial Crystallization and Enzymatic Degradation. <i>Macromolecular Chemistry and Physics</i> , 2010, 211, 2480-2483.	1.1	9
50	Solvent-induced morphological diversification in poly(l-lactide-b- ϵ -caprolactone) block copolymer thin films. <i>Polymer Degradation and Stability</i> , 2010, 95, 1414-1420.	2.7	6
51	Transformation of two-dimensional structures of noncyclic isobutenyl diamide compounds by tandem Claisen rearrangement. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2010, 356, 58-62.	2.3	16
52	Structural and Electronic Properties of Extremely Long Perylene Bisimide Nanofibers Formed through a Stoichiometrically Mismatched, Hydrogen-Bonded Complexation. <i>Small</i> , 2010, 6, 2731-2740.	5.2	21
53	A complementary guest induced morphology transition in a two-component multiple H-bonding self-assembly. <i>Chemical Communications</i> , 2010, 46, 1076-1078.	2.2	50
54	Two-Dimensional Structures of Anthracene Derivatives: Photodimerization and Host-Guest Chemistry. <i>Journal of Physical Chemistry B</i> , 2010, 114, 16718-16722.	1.2	17

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55	Bipyridine Derivatives at a Solid/Liquid Interface: Effects of the Number and Length of Peripheral Alkyl Chains. <i>Langmuir</i> , 2010, 26, 3376-3381.	1.6	36
56	Fabrication and transformation of novel two-dimensional tripod structures: structural modulation by alkyl chain length and tandem Claisen rearrangement. <i>Chemical Communications</i> , 2010, 46, 8008.	2.2	19
57	Interconvertible Oligothiophene Nanorods and Nanotapes with High Charge Carrier Mobilities. <i>Chemistry - A European Journal</i> , 2009, 15, 9320-9324.	1.7	60
58	In vitro synthesis of polyhydroxyalkanoate catalyzed by class II and III PHA synthases: a useful technique for surface coatings of a hydrophobic support with PHA. <i>Journal of Chemical Technology and Biotechnology</i> , 2009, 85, 779-782.	1.6	12
59	Effect of Phase Structure on Enzymatic Degradation in Poly(l-lactide)/Atactic Poly(3-hydroxybutyrate) Blends with Different Miscibility. <i>Biomacromolecules</i> , 2009, 10, 1013-1018.	2.6	32
60	Reversible Transformation between Rings and Coils in a Dynamic Hydrogen-Bonded Self-Assembly. <i>Journal of the American Chemical Society</i> , 2009, 131, 5408-5410.	6.6	92
61	Unconventional hydrogen-bond-directed hierarchical co-assembly between perylene bisimide and azobenzene-functionalized melamine. <i>Organic and Biomolecular Chemistry</i> , 2009, 7, 3926.	1.5	33
62	Toroidal Nanoobjects from Rosette Assemblies of Melamine-Linked Oligo(<i>p</i> -phenyleneethynylene)s and Cyanurates. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 4691-4694.	7.2	125
63	Two-dimensional structures of pyrimido[5,4-d]pyrimidine derivatives at solid/liquid interface. <i>Applied Surface Science</i> , 2008, 254, 7576-7580.	3.1	1
64	Interaction Force of Chitin-Binding Domains onto Chitin Surface. <i>Biomacromolecules</i> , 2008, 9, 2126-2131.	2.6	26
65	Polyhydroxyalkanoate Film Formation and Synthase Activity During In Vitro and In Situ Polymerization on Hydrophobic Surfaces. <i>Biomacromolecules</i> , 2008, 9, 2811-2818.	2.6	22
66	Au/SiO ₂ nanocomposite film substrates with a high number density of Au nanoparticles for molecular conductance measurement. <i>Nanotechnology</i> , 2007, 18, 205501.	1.3	11
67	Odd-even effect and metal induced structural convergence in self-assembled monolayers of bipyridine derivatives. <i>Chemical Communications</i> , 2007, , 1343-1345.	2.2	41
68	Effects of oligoDNA template length and sequence on binary self-assembly of a nucleotide bolaamphiphile. <i>Organic and Biomolecular Chemistry</i> , 2007, 5, 3450.	1.5	16
69	Real-time Observations of Oriented Crystallization of Poly(ϵ -caprolactone) Thin Film, Induced by an AFM Tip. <i>Macromolecular Chemistry and Physics</i> , 2007, 208, 1862-1870.	1.1	12
70	Self-assembly of bipyridine derivatives at solid/liquid interface: Effects of the number of peripheral alkyl chains and metal coordination on the two-dimensional structures. <i>Surface Science</i> , 2007, 601, 2520-2524.	0.8	14
71	Phase Structure and Enzymatic Degradation of Poly(l-lactide)/Atactic Poly(3-hydroxybutyrate) Blends: An Atomic Force Microscopy Study. <i>Biomacromolecules</i> , 2006, 7, 1921-1928.	2.6	35
72	Two-Dimensional Structure Control by Molecular Width Variation with Metal Coordination. <i>Langmuir</i> , 2006, 22, 6910-6914.	1.6	29

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73	Adsorption of Biopolyester Depolymerase on Silicon Wafer and Poly[(R)-3-hydroxybutyric acid] Single Crystal Revealed by Real-Time AFM. <i>Macromolecular Bioscience</i> , 2006, 6, 41-50.	2.1	31
74	Effective production and kinetic characterization of ultra-high-molecular-weight poly[(R)-3-hydroxybutyrate] in recombinant <i>Escherichia coli</i> . <i>Polymer Degradation and Stability</i> , 2005, 87, 161-169.	2.7	57
75	Biosynthesis of Polyhydroxyalkanoate (PHA) Copolymer from Fructose Using Wild-Type and Laboratory-Evolved PHA Synthases. <i>Macromolecular Bioscience</i> , 2005, 5, 112-117.	2.1	56
76	Organization of Polyhydroxyalkanoate Synthase for In Vitro Polymerization as Revealed by Atomic Force Microscopy. <i>Macromolecular Bioscience</i> , 2005, 5, 929-935.	2.1	11
77	Atomic Force Microscopic Observation of in Vitro Polymerized Poly[(R)-3-hydroxybutyrate]: Insight into Possible Mechanism of Granule Formation. <i>Biomacromolecules</i> , 2005, 6, 2671-2677.	2.6	21
78	Enzymatic Degradation of Poly(L-lactide) Film by Proteinase K: Quartz Crystal Microbalance and Atomic Force Microscopy Study. <i>Biomacromolecules</i> , 2005, 6, 850-857.	2.6	99
79	Dynamic Adsorption Behavior of Poly(3-hydroxybutyrate) Depolymerase onto Polyester Surface Investigated by QCM and AFM. <i>Biomacromolecules</i> , 2005, 6, 2084-2090.	2.6	28
80	Crystal Growth and Solid-State Structure of Poly(lactide) Stereocopolymers. <i>Biomacromolecules</i> , 2005, 6, 457-467.	2.6	45
81	Enzymatic Degradation Processes of Poly[(R)-3-hydroxybutyric acid] and Poly[(R)-3-hydroxybutyric acid-co-(R)-3-hydroxyvaleric acid] Single Crystals Revealed by Atomic Force Microscopy: Effects of Molecular Weight and Second-Monomer Composition on Erosion Rates. <i>Biomacromolecules</i> , 2005, 6, 2008-2016.	2.6	44
82	In-Situ Atomic Force Microscopy Observation of Enzymatic Degradation in Poly(hydroxyalkanoic acid) Thin Films: Normal and Constrained Conditions. <i>Macromolecular Bioscience</i> , 2004, 4, 276-285.	2.1	16
83	Biosynthesis and Compositional Regulation of Poly[(3-hydroxybutyrate)-co-(3-hydroxyhexanoate)] in Recombinant <i>Ralstonia eutropha</i> Expressing Mutated Polyhydroxyalkanoate Synthase Genes. <i>Macromolecular Bioscience</i> , 2004, 4, 238-242.	2.1	70
84	Mutation Effects of a Conserved Alanine (Ala510) in Type I Polyhydroxyalkanoate Synthase from <i>Ralstonia eutropha</i> on Polyester Biosynthesis. <i>Macromolecular Bioscience</i> , 2004, 4, 963-970.	2.1	35
85	Microbial synthesis and enzymatic degradation of renewable poly[(R)-3-hydroxybutyrate-co-(R)-3-hydroxyhexanoate]. <i>Science and Technology of Advanced Materials</i> , 2004, 5, 449-453.	2.8	14
86	Direct Observation of Poly(3-hydroxybutyrate) Depolymerase Adsorbed on Polyester Thin Film by Atomic Force Microscopy. <i>Biomacromolecules</i> , 2004, 5, 1642-1646.	2.6	22
87	Effect of Water on the Surface Molecular Mobility of Poly(lactide) Thin Films: An Atomic Force Microscopy Study. <i>Biomacromolecules</i> , 2004, 5, 1187-1193.	2.6	38
88	Enzymatic Degradation Processes of Lamellar Crystals in Thin Films for Poly[(R)-3-hydroxybutyric acid] and Its Copolymers Revealed by Real-Time Atomic Force Microscopy. <i>Biomacromolecules</i> , 2004, 5, 2186-2194.	2.6	45
89	Crystal Growth in Poly(L-lactide) Thin Film Revealed by in situ Atomic Force Microscopy. <i>Macromolecular Chemistry and Physics</i> , 2003, 204, 1822-1831.	1.1	62
90	Crystallization, Stability, and Enzymatic Degradation of Poly(L-lactide) Thin Film. <i>Biomacromolecules</i> , 2002, 3, 350-356.	2.6	107

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91	Compatibilization Effect of Poly(ϵ -caprolactone)-b-poly(ethylene glycol) Block Copolymers and Phase Morphology Analysis in Immiscible Poly(lactide)/Poly(ϵ -caprolactone) Blends. <i>Biomacromolecules</i> , 2002, 3, 1179-1186.	2.6	206
92	Real-time enzymatic degradation study of poly[(R)-3-hydroxybutyric acid] copolymer thin film by atomic force microscopy in buffer solution. <i>Macromolecular Bioscience</i> , 2002, 2, 189.	2.1	14
93	Crystal morphologies and enzymatic degradation of melt-crystallized thin films of random copolyesters of (R)-3-hydroxybutyric acid with (R)-3-hydroxyalkanoic acids. <i>Polymer Degradation and Stability</i> , 2002, 76, 467-478.	2.7	18
94	Morphological and Kinetic Analyses of Regime Transition for Poly[(S)-lactide] Crystal Growth. <i>Biomacromolecules</i> , 2001, 2, 1007-1014.	2.6	172
95	In Situ Observation of Crystal Growth for Poly[(S)-lactide] by Temperature-Controlled Atomic Force Microscopy. <i>Biomacromolecules</i> , 2001, 2, 940-945.	2.6	60
96	In situ observation of lamellar growth in thin films for poly[(R)-3-hydroxybutyric acid-co-6-hydroxyhexanoic acid] at a high crystallization temperature of 110°C by atomic force microscopy. <i>Polymer</i> , 2001, 42, 2707-2710.	1.8	12
97	Microscopic visualization on crystalline morphologies of thin films for poly[(R)-3-hydroxybutyric acid] and its copolymer. <i>Polymer</i> , 2000, 41, 867-874.	1.8	57
98	Crystallization behavior and thermal properties of melt-crystallized poly[(R)-3-hydroxybutyric acid-co-6-hydroxyhexanoic acid] films. <i>International Journal of Biological Macromolecules</i> , 1999, 25, 177-183.	3.6	14
99	Photo-responsive hole formation in the monolayer membrane wall of a supramolecular nanotube for quick recovery of encapsulated protein. <i>Nanoscale Advances</i> , 0, , .	2.2	1
100	Halogen bond-directed self-assembly in bicomponent blends at the solid/liquid interface: Effect of the alkyl chain substitution position. <i>Physical Chemistry Chemical Physics</i> , 0, , .	1.3	5