

Jun Kawakami

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Synthesis and Properties of Hexakis(6-octyl-2-azulenyl)benzene as a Multielectron Redox System with Liquid Crystalline Behavior. <i>Journal of Organic Chemistry</i> , 2005, 70, 3939-3949.	3.2	74
2	Efficient preparation of 2-azulenylboronate and Miyaura-Suzuki cross-coupling reaction with aryl bromides for easy access to poly(2-azulenyl)benzenes. <i>Tetrahedron</i> , 2004, 60, 5357-5366.	1.9	49
3	Azulene-Substituted Aromatic Amines. Synthesis and Amphoteric Redox Behavior of N,N-Di(6-azulenyl)-p-toluidine and N,N,N',N'-Tetra(6-azulenyl)-p-phenylenediamine and Their Derivatives. <i>Journal of Organic Chemistry</i> , 2005, 70, 2285-2293.	3.2	32
4	Synthesis and Intramolecular Pericyclization of 1-Azulenyl Thioketones. <i>Journal of Organic Chemistry</i> , 2008, 73, 2256-2263.	3.2	30
5	Intramolecular excimer formation and complexing behavior of 1,n-bis(naphthalenecarboxy)oxaalkanes as fluorescent chemosensors for calcium and barium ions. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2001, 139, 71-78.	3.9	28
6	Synthesis and liquid crystalline behavior of azulene-based liquid crystals with 6-hexadecyl substituents on each azulene ring. <i>Tetrahedron</i> , 2010, 66, 8304-8312.	1.9	27
7	Towards the Preparation of Electrochromic Materials with Strong Absorption in the Near-Infrared Region: Synthesis and Redox Behavior of Azulene-Substituted Eneidyne Scaffolds Connected by a 9,10-Anthracenediyl Spacer. <i>European Journal of Organic Chemistry</i> , 2009, 2009, 5355-5364.	2.4	24
8	Ab initio molecular orbital study of the complexing behavior of N-ethyl-1-naphthalenecarboxamide as fluorescent chemosensors for alkali and alkaline earth metal ions. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2002, 146, 163-168.	3.9	23
9	Synthesis, Stabilities, and Redox Behavior of Mono-, Di-, and Tetracations Composed of Di(1-azulenyl)methylum Units Connected to a Benzene Ring by Phenyl- and 2-Thienylacetylene Spacers. A Concept of a Cyanine ⁺ Cyanine Hybrid as a Stabilized Electrochromic System. <i>Journal of Organic Chemistry</i> , 2007, 72, 162-172.	3.2	22
10	Antibacterial and Antifungal Activities of Tryptanthrin Derivatives. <i>Transactions of the Materials Research Society of Japan</i> , 2011, 36, 603-606.	0.2	21
11	Structure-activity Relationship Analysis for Antimicrobial Activities of Tryptanthrin Derivatives Using Quantum Chemical Calculations. <i>Journal of Computer Chemistry Japan</i> , 2013, 12, 109-112.	0.1	20
12	Synthesis and redox behavior of 1,2-dihydro-1-oxabenz[a]azulen-2-ones. <i>Tetrahedron</i> , 2014, 70, 2796-2803.	1.9	18
13	Fluorescent Solvatochromism of 2-Aminotryptanthrin. <i>Transactions of the Materials Research Society of Japan</i> , 2013, 38, 123-125.	0.2	16
14	Fluorescence Spectrophotometric Determination of Ca ²⁺ and Ba ²⁺ Based on 1,n-Bis(1-naphthylcarboxy)oxaalkanes. <i>Chemistry Letters</i> , 1996, 25, 617-618.	1.3	15
15	Intramolecular exciplex formation and complexing behavior of 1-(2-naphthalenecarboxy)-n-(p-substituted benzenecarboxy)oxaalkanes as fluorescent chemosensors for calcium and barium ions. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2004, 161, 141-149.	3.9	15
16	Controlling photochromism between fluoroalkyl end-capped oligomer/polyaniline and N,N'-diphenyl-1,4-phenylenediamine nanocomposites induced by UV-light-responsive titanium oxide nanoparticles. <i>Journal of Colloid and Interface Science</i> , 2011, 359, 461-466.	9.4	15
17	Complexing Behavior of New Naphthalene Derivatives Having Amide Groups as Fluorescent Chemosensors for Alkali and Alkaline Earth Metal Ions. <i>Chemistry Letters</i> , 1999, 28, 955-956.	1.3	14
18	Biotransformation of prenyl alcohols by cultured cells of <i>Cucurbita maxima</i> . <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2007, 47, 33-36.	1.8	14

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19	8-Methyltryptanthrin-Induced Differentiation of P19CL6 Embryonal Carcinoma Cells into Spontaneously Beating Cardiomyocyte-like Cells. <i>Journal of Natural Products</i> , 2014, 77, 1413-1419.	3.0	14
20	Antibacterial and antifungal activities of isoprenoids. <i>Transactions of the Materials Research Society of Japan</i> , 2011, 36, 55-58.	0.2	13
21	Intramolecular fluorescence quenching and exciplex formation in π -(1-pyrenyl)alkyl para-substituted benzoates. <i>Journal of Physical Organic Chemistry</i> , 1994, 7, 31-42.	1.9	12
22	8-Hydroxyquinoline Derivative as a Fluorescent Chemosensor for Zinc Ion. <i>Analytical Sciences</i> , 2003, 19, 1353-1354.	1.6	12
23	Photophysical Properties of the 2-Hydroxytryptanthrin and Its Sodium Salt as Near-infrared Dyes for Fluorescent Imaging. <i>Analytical Sciences</i> , 2016, 32, 251-253.	1.6	12
24	Spectral Characteristics of Highly Fluorescent 2-(<i>N,N</i> -dimethylamino)tryptanthrin. <i>Transactions of the Materials Research Society of Japan</i> , 2016, 41, 143-146.	0.2	12
25	Synthesis and photophysical properties of azuleno[1,2- <i>b</i> :4,5]pyrrolo[2,1- <i>b</i>]quinazoline-6,14-diones: Azulene analogs of tryptanthrin. <i>Tetrahedron</i> , 2018, 74, 7018-7029.	1.9	12
26	Substrate Specificities of Wild and Mutated Farnesyl Diphosphate Synthases from <i>Bacillus Stearothermophilus</i> with Artificial Substrates. <i>Bioscience, Biotechnology and Biochemistry</i> , 2007, 71, 1657-1662.	1.3	11
27	2-Aminotryptanthrin Derivative with Pyrene as a FRET-based Fluorescent Chemosensor for Metal Ions. <i>Analytical Sciences</i> , 2014, 30, 949-954.	1.6	11
28	Preparation of a large-sized highly flexible carbon nanohoop. <i>Organic and Biomolecular Chemistry</i> , 2019, 17, 6843-6853.	2.8	11
29	Intramolecular Exciplex Formation and Complexing Behavior of Naphthalene Derivatives as Fluorescent Chemosensors for Calcium and Barium Ions. <i>Analytical Sciences</i> , 1999, 15, 617-618.	1.6	10
30	Characterization of bis-8-hydroxyquinoline-Armed diazatrithia-16-crown-5 and diazadibenzo-18-crown-6 ligands as fluorescent chemosensors for zinc. <i>Journal of Supramolecular Chemistry</i> , 2001, 1, 221-227.	0.4	10
31	Preparation of a Cyclic Polyphenylene Array for a Zigzag-Type Carbon Nanotube Segment. <i>Journal of Organic Chemistry</i> , 2015, 80, 5092-5110.	3.2	10
32	2-Hydroxytryptanthrin and 1-Formyl-2-hydroxytryptanthrin as Fluorescent Metal-ion Sensors and Near-infrared Fluorescent Labeling Reagents. <i>Transactions of the Materials Research Society of Japan</i> , 2018, 43, 109-112.	0.2	10
33	Substrate Specificities of Several Prenyl Chain Elongating Enzymes with Respect to 4-Methyl-4-pentenyl Diphosphate. <i>Bioscience, Biotechnology and Biochemistry</i> , 2004, 68, 2070-2075.	1.3	9
34	Intramolecular Excimer Formation and Complexing Behavior of Tridentate Pyridine Podand Having Two Naphthalene Rings as a Fluorescent Chemosensor for Zinc Ion. <i>Analytical Sciences</i> , 2002, 18, 735-736.	1.6	8
35	2-Aminotryptanthrin Derivative with Pyrene as a FRET-based Fluorescent Chemosensor for Al ³⁺ . <i>Analytical Sciences</i> , 2009, 25, 1385-1386.	1.6	8
36	Efficient synthesis and redox behavior of a series of 6-alkyl-2-phenylazulenes. <i>Tetrahedron</i> , 2013, 69, 4259-4269.	1.9	8

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37	Ab initio Molecular Orbital Study of Emission Mechanism of 2, 6-Bis(quinolinecarboxy)methylpyridine as Fluorescent Chemosensors for Zinc and Cadmium Ions. <i>Journal of Computer Chemistry Japan</i> , 2003, 2, 57-62.	0.1	8
38	Synthesis and Dynamic Stereochemistry of Azulene-Substituted 9-Fluorenyl, 9,10-Dihydro-10,10-dimethyl-9-anthryl, 10,11-Dihydro-5H-dibenzo[a,d]cyclohepten-5-yl, and 5H-Dibenzo[a,d]cyclohepten-5-yl Cations. Correlations of Stabilities of the Carbocations and Rotational Barrier of Azulene Ring. <i>Bulletin of the Chemical Society of Japan</i> , 2005, 78, 2051-2065.	3.2	7
39	Substrate specificities of E- and Z-farnesyl diphosphate synthases with substrate analogs. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2012, 80, 1-6.	1.8	7
40	Naphthalene Ring-Fused 2-Aminotryptanthrin as a Fluorescent Chemosensor for Al ³⁺ . <i>Transactions of the Materials Research Society of Japan</i> , 2016, 41, 131-133.	0.2	7
41	2-Hydroxy-1-((2-(pyridin-2-yl)hydrazono)methyl)tryptanthrin as a Fluorescent Chemosensor for Metal Ions. <i>Transactions of the Materials Research Society of Japan</i> , 2018, 43, 209-212.	0.2	7
42	Correlation of Exciplex Formation with Ground State Conformations in \hat{I}^2 -(1-Pyrenyl)ethyl Benzoates. <i>Chemistry Letters</i> , 1992, 21, 1013-1016.	1.3	6
43	Substrate specificities of wild and mutated farnesyl diphosphate synthases: Reactivity of allylic substrate homologs having hydrophilic groups at 1 ω -position. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2009, 59, 225-230.	1.8	6
44	Three-dimensional structure of a glycosphingolipid having a novel carbohydrate linkage, Galbeta1-4(Fucalpha1-3)Glcbeta1-3Galbeta, determined by theoretical calculations. <i>Glycoconjugate Journal</i> , 1998, 15, 107-113.	2.7	5
45	Substrate specificities of medium-prenylchain elongating enzymes, hexaprenyl- and heptaprenyl diphosphate synthases. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2003, 22, 97-103.	1.8	5
46	Poly(amide amine) Dendrimer with Naphthyl Units as a Fluorescent Chemosensor for Metal Ions. <i>Analytical Sciences</i> , 2005, 21, 729-730.	1.6	5
47	Poly(amine ester) Dendrimer with Naphthyl Units as a Fluorescent Chemosensor for Al(III), Cu(II), and Zn(II). <i>Analytical Sciences</i> , 2006, 22, 1383-1384.	1.6	5
48	Fluorescence Emission Mechanism of Three <i>N,N</i> -dimethylaminotryptanthrins by Density Functional Theory Calculations. <i>Transactions of the Materials Research Society of Japan</i> , 2018, 43, 319-323.	0.2	5
49	Time-Dependent DFT Study of Emission Mechanism of 8-Hydroxyquinoline Derivatives as Fluorescent Chemosensors for Metal Ions. <i>Journal of Computer Chemistry Japan</i> , 2006, 5, 19-22.	0.1	5
50	Photophysical Properties of 2-Hydroxytryptanthrin Analog as a Near-Infrared Dye for Fluorescent Imaging. <i>Transactions of the Materials Research Society of Japan</i> , 2020, 45, 19-22.	0.2	5
51	Photophysical properties of \hat{I}^2 -(1-pyrenyl)ethyl <i>p</i> -cyanobenzoate in binary solvents of isooctane-ethyl acetate and ethyl acetate-acetonitrile. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2001, 140, 199-206.	3.9	4
52	Biotransformation of indanol, fluorenonol and their analogs using tissue-cultured cells and their antimicrobial activity. <i>Transactions of the Materials Research Society of Japan</i> , 2019, 44, 29-33.	0.2	4
53	Intramolecular Exciplex Formation and Metal Ion Recognition in 1-(1-Naphthalenecarboxy)- <i>n</i> -(<i>p</i> -substituted benzenecarboxy)oxaalkanes. <i>Chemistry Letters</i> , 1998, 27, 535-536.	1.3	3
54	Correlation of Exciplex Formation with Ground State Conformations in Flexible Bichromophoric Esters: 2-(1-Pyrenyl)ethyl- <i>p</i> -Cyanobenzoate and Its Model Compounds. <i>Bulletin of the Chemical Society of Japan</i> , 1999, 72, 47-54.	3.2	3

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55	Composition and antimicrobial activity of the essential oil and water extract from Japanese wild <i>Rosa rugosa</i> . Transactions of the Materials Research Society of Japan, 2011, 36, 517-521.	0.2	3
56	Preparation of a Cyclic Polyphenylene Array for a Chiral-Type Carbon Nanotube Segment. Bulletin of the Chemical Society of Japan, 2016, 89, 1260-1275.	3.2	3
57	Cyanine-cyanine hybrid structure as a stabilized polyelectrochromic system: synthesis, stabilities, and redox behavior of di(1-azulenyl)methylm units connected with electron-accepting π -electron systems. <i>Arkivoc</i> , 2018, 2018, 145-169.	0.5	3
58	Benzo-fused BODIPY Derivative as a Fluorescent Chemosensor for Fe^{3+} , Cu^{2+} , and Al^{3+} . Transactions of the Materials Research Society of Japan, 2019, 44, 69-73.	0.2	3
59	Aggregation-induced Emission Properties of 2-(<i>N,N</i> -diphenylamino)tryptanthrin. Transactions of the Materials Research Society of Japan, 2019, 44, 153-156.	0.2	3
60	Substrate Specificities of <i>E</i> - and <i>Z</i> -Farnesyl Diphosphate Synthases with Artificial Substrates. Transactions of the Materials Research Society of Japan, 2010, 35, 391-395.	0.2	2
61	Substrate specificities of farnesyl diphosphate synthases with respect to cyclic substrate homologs. Transactions of the Materials Research Society of Japan, 2010, 35, 227-231.	0.2	2
62	Solid-State Fluorescence of Tryptanthrin Analogs. Transactions of the Materials Research Society of Japan, 2021, 46, 45-48.	0.2	2
63	Insect pheromone-like activity of several isoprenoids against <i>Phyllonorycter ringoniella</i> ; (Matsumura). Transactions of the Materials Research Society of Japan, 2009, 34, 575-578.	0.2	2
64	Poly(amide amine) Dendrimers with Naphthyl Units as Fluorescent Chemosensor Materials for Metal Cations. Transactions of the Materials Research Society of Japan, 2010, 35, 849-852.	0.2	1
65	TD-DFT study on the fluorescent chemosensor for Hg^{2+} , 2-(Benzo-d-thiazol-2-yl)quinoline. <i>Journal of Molecular Structure</i> , 2011, 991, 73-78.	3.6	1
66	Efficient Preparation of 2-Azulenylboronate and Miyaura-Suzuki Cross-Coupling Reaction with Aryl Bromides for Easy Access to Poly(2-azulenyl)benzenes.. <i>ChemInform</i> , 2004, 35, no.	0.0	0
67	Substrate specificities of wild- and mutated-type farnesyl diphosphate synthases with artificial substrate homologs. Transactions of the Materials Research Society of Japan, 2009, 34, 533-536.	0.2	0
68	8-Hydroxyquinoline Ligands as Fluorescent Chemosensors for Zinc and Cadmium Ions. Transactions of the Materials Research Society of Japan, 2012, 37, 601-602.	0.2	0
69	Antibacterial Activity of Radial Compounds with Peripheral Quaternary Ammonium Units. Transactions of the Materials Research Society of Japan, 2010, 35, 885-887.	0.2	0