Takeshi Tsumuraya

List of Publications by Year
in descending order

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63	1,957	236925 25	254184 43
papers	citations	h-index	g-index

65	65	65	903
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Electrochemical biosensor for the dual detection of Gambierdiscus australes and Gambierdiscus excentricus in field samples. First report of G. excentricus in the Balearic Islands. Science of the Total Environment, 2022, 806, 150915.	8.0	12
2	A smartphone-controlled amperometric immunosensor for the detection of Pacific ciguatoxins in fish. Food Chemistry, 2022, 374, 131687.	8.2	14
3	Chemical Modification of Phageâ€Displayed Helixâ€Loopâ€Helix Peptides to Construct Kinaseâ€Focused Libraries. ChemBioChem, 2021, 22, 3406-3409.	2.6	4
4	Further Advance of Gambierdiscus Species in the Canary Islands, with the First Report of Gambierdiscus belizeanus. Toxins, 2020, 12, 692.	3.4	26
5	Addressing the Analytical Challenges for the Detection of Ciguatoxins Using an Electrochemical Biosensor. Analytical Chemistry, 2020, 92, 4858-4865.	6.5	23
6	Rationally Designed Synthetic Haptens to Generate Anti-Ciguatoxin Monoclonal Antibodies, and Development of a Practical Sandwich ELISA to Detect Ciguatoxins. Toxins, 2019, 11, 533.	3.4	16
7	Structural basis of the broad substrate tolerance of the antibody 7B9-catalyzed hydrolysis of p-nitrobenzyl esters. Bioorganic and Medicinal Chemistry, 2018, 26, 1412-1417.	3.0	3
8	Expanding the Scope of Functionalized Small Nonprotein Components for Holoabzyme 27C1. ChemistrySelect, 2018, 3, 9313-9317.	1.5	0
9	Highly Sensitive and Practical Fluorescent Sandwich ELISA for Ciguatoxins. Analytical Chemistry, 2018, 90, 7318-7324.	6.5	35
10	Site-Directed Chemical Mutations on Abzymes: Large Rate Accelerations in the Catalysis by Exchanging the Functionalized Small Nonprotein Components. ACS Chemical Biology, 2016, 11, 2803-2811.	3.4	2
11	Effects of substrate conformational strain on binding kinetics of catalytic antibodies. Biophysics and Physicobiology, 2016, 13, 135-138.	1.0	2
12	Preparation of Anti-Ciguatoxin Monoclonal Antibodies Using Synthetic Haptens: Sandwich ELISA Detection of Ciguatoxins. Journal of AOAC INTERNATIONAL, 2014, 97, 373-379.	1.5	21
13	Directed Evolution of Hydrolytic Antibodies in Phage-displayed Combinatorial Libraries. Chemistry Letters, 2014, 43, 272-280.	1.3	3
14	Antibody-catalyzed decarboxylation and aldol reactions using a primary amine molecule as a functionalized small nonprotein component. Bioorganic and Medicinal Chemistry, 2013, 21, 7011-7017.	3.0	4
15	Development of a monoclonal antibody against the left wing of ciguatoxin CTX1B: Thiol strategy and detection using a sandwich ELISA. Toxicon, 2012, 60, 348-357.	1.6	36
16	Structural and energetic hot-spots for the interaction between a ladder-like polycyclic ether and the anti-ciguatoxin antibody 10C9Fab. Molecular BioSystems, 2011, 7, 793-798.	2.9	4
17	PEGylated antibody in organic media. Journal of Bioscience and Bioengineering, 2011, 111, 564-568.	2.2	7
18	Contribution of the trifluoroacetyl group in the thermodynamics of antigenâ€“antibody binding. Journal of Molecular Recognition, 2010, 23, 263-270.	2.1	6

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19	Molecular design of small organic molecules based on structural information for a conformationally constrained peptide that binds to G-CSF receptor. Bioorganic and Medicinal Chemistry Letters, 2010, 20, 1169-1172.	2.2	13
20	Selection of inhibitory peptides for Aurora-A kinase from a phage-displayed library of helixâ€“loopâ€“helix peptides. Bioorganic and Medicinal Chemistry Letters, 2010, 20, 1776-1778.	2.2	21
21	Production of monoclonal antibodies for sandwich immunoassay detection of Pacific ciguatoxins. Toxicon, 2010, 56, 797-803.	1.6	47
22	A Single Antibody Catalyzes Multiple Chemical Transformations upon Replacement of the Functionalized Small Nonprotein Components. Journal of the American Chemical Society, 2009, 131, 456-457.	13.7	20
23	Use of monoclonal antibodies as an effective strategy for treatment of ciguatera poisoning. Toxicon, 2009, 53, 802-805.	1.6	14
24	Selection of a Carbohydrate-Binding Domain with a Helixâ^'Loopâ^'Helix Structure. Biochemistry, 2008, 47, 6745-6751.	2.5	26
25	How Protein Recognizes Ladder-like Polycyclic Ethers. Journal of Biological Chemistry, 2008, 283, 19440-19447.	3.4	15
26	Critical Contribution of Aromatic Rings to Specific Recognition of Polyether Rings. Journal of Biological Chemistry, 2008, 283, 12259-12266.	3.4	16
27	Molecular Basis for Transition-State Stabilization in Catalytic Antibodies. Bulletin of the Chemical Society of Japan, 2008, 81, 1039-1052.	3.2	3
28	1P-057 Molecular recognition mechanism of an anti-ciguatoxin antibody : mutational study and small-molecule binding screen(The 46th Annual Meeting of the Biophysical Society of Japan). Seibutsu Butsuri, 2008, 48, S29-S30.	0.1	0
29	Thermodynamic and Structural Basis for Transition-State Stabilization in Antibody-Catalyzed Hydrolysis. Journal of Molecular Biology, 2007, 369, 198-209.	4.2	12
30	Production of monoclonal antibodies for sandwich immunoassay detection of ciguatoxin 51-hydroxyCTX3C. Toxicon, 2006, 48, 287-294.	1.6	51
31	Molecular Mechanisms of Transition-state Stabilization in Catalytic Antibodies. Yuki Gosei Kagaku Kyokaishi/Journal of Synthetic Organic Chemistry, 2006, 64, 1159-1170.	0.1	1
32	Comparison of two forms of catalytic antibody displayed on yeast-cell surface. Journal of Molecular Catalysis B: Enzymatic, 2004, 28, 241-246.	1.8	7
33	Phage-display selection of antibodies to the left end of CTX3C using synthetic fragments. Journal of Immunological Methods, 2004, 289, 137-146.	1.4	26
34	Phage-display selection of antibodies to the left end of CTX3C using synthetic fragments. Journal of Immunological Methods, 2004, 289, 137-137.	1.4	2
35	Synthesis-Based Approach toward Direct Sandwich Immunoassay for Ciguatoxin CTX3C. Journal of the American Chemical Society, 2003, 125, 7608-7612.	13.7	90
36	Concise Synthesis of Ciguatoxin ABC-Ring Fragments and Surface Plasmon Resonance Study of the Interaction of their BSA Conjugates with Monoclonal Antibodies. Bioorganic and Medicinal Chemistry Letters, 2001, 11, 2037-2040.	2.2	37

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37	Catalytic Antibodies Induced by a Zwitterionic Hapten. Chemistry - A European Journal, 2001, 7, 3748-3755.	3.3	12
38	Antibody-Catalyzed Removal of the p-Nitrobenzyl Ester Protecting Group: The Molecular Basis of Broad Substrate Specificity. Chemistry - A European Journal, 2000, 6, 1656-1662.	3.3	6
39	Antibody-Catalyzed Removal of the p-Nitrobenzyl Ester Protecting Group: The Molecular Basis of Broad Substrate Specificity. Chemistry - A European Journal, 2000, 6, 1656-1662.	3.3	15
40	Structure-based design of diaminopyranosides as a novel inhibitor core unit of HIV proteases. Bioorganic and Medicinal Chemistry Letters, 1999, 9, 1179-1184.	2.2	6
41	Catalytic Antibodies Generated via Homologous and Heterologous Immunization. Journal of the American Chemical Society, 1995, 117, 11390-11396.	13.7	26
42	Cyclotrigermanes. Synthesis and thermal decomposition. Journal of Organometallic Chemistry, 1994, 482, 131-138.	1.8	36
43	Catalytic antibodies generated via heterologous immunization. Journal of the American Chemical Society, 1994, 116, 6025-6026.	13.7	37
44	Catalytic antibodies generated via heterologous immunization. [Erratum to document cited in CA121:80587]. Journal of the American Chemical Society, 1994, 116, 8432-8432.	13.7	3
45	Esterolytic antibodies induced to haptens with a 1,2-amino alcohol functionality. Journal of the American Chemical Society, 1994, 116, 487-494.	13.7	38
46	Strained-Ring and Double-Bond Systems Consisting of the Group 14 Elements Si, Ge, and Sn. Angewandte Chemie International Edition in English, 1991, 30, 902-930.	4.4	342
47	Heptasila[7]paracyclophane. Angewandte Chemie International Edition in English, 1990, 29, 778-780.	4.4	8
48	Molecular structures and reactivities of digermiranes and azadigermiridines. Organometallics, 1990, 9, 2061-2067.	2.3	59
49	General strategy for the systematic synthesis of oligosiloxanes. Silicone dendrimers. Journal of the American Chemical Society, 1990, 112, 7077-7079.	13.7	182
50	Carbon-unsubstituted germoles: palladium-catalyzed reactions of germylenes with acetylene. Organometallics, 1990, 9, 869-871.	2.3	27
51	(Z)-1,2-Bis(2,6-diisopropylphenyl)-1,2-dimesityldigermene. Synthesis, crystal structure, and .pi.-bond energy. Journal of the American Chemical Society, 1990, 112, 9394-9395.	13.7	62
52	3-Alkylidenethiagermiranes. Organometallics, 1989, 8, 1467-1472.	2.3	30
53	Synthesis and chemistry of thiagermiranes. Organometallics, 1989, 8, 161-167.	2.3	25
54	Electronic absorption spectra of diorganogermylenes in matrixes: formation of diorganogermylene complexes with heteroatom-containing substrates. Organometallics, 1989, 8, 2759-2766.	2.3	95

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55	A palladadigermetane: palladium-catalyzed insertion reactions of digermiranes. Organometallics, 1989, 8, 2286-2288.	2.3	53
56	Photolysis of an Azidogermane. Observation of a Germanimine (Ge=N) in Hydrocarbon Matrices. Chemistry Letters, 1989, 18, 1043-1046.	1.3	10
57	Photolysis of cyclotrigermane. Synthesis and chemistry of digermiranes and digermetanes containing sulfur and selenium. Organometallics, 1988, 7, 2015-2019.	2.3	93
58	Digermirane and azadigermiridine. Synthesis and reactions. Organometallics, 1988, 7, 1882-1883.	2.3	35
59	Spectroscopic characterization of diarylgermylene complexes with heteroatom-containing substrates. Organometallics, 1988, 7, 1880-1882.	2.3	39
60	Matrix Isolation and Ultraviolet Spectra of Germylenes. Chemistry Letters, 1987, 16, 317-318.	1.3	36
61	Synthesis of germathiiranes. Tetrahedron Letters, 1986, 27, 3251-3254.	1.4	28
62	Reaction of germylene with thioketenes: Synthesis of alkylidenedigermathietanes. Tetrahedron Letters, 1986, 27, 5105-5108.	1.4	20
63	Germathiirane intermediate from the reaction of germylene with thioketones. Tetrahedron Letters, 1985, 26, 4523-4524.	1.4	15