

Ken D Shimizu

List of Publications by Year in descending order

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100
papers

6,496
citations

66343

42
h-index

64796

79
g-index

107
all docs

107
docs citations

107
times ranked

5802
citing authors

#	ARTICLE	IF	CITATIONS
1	Characterization of Molecularly Imprinted Polymers with the Langmuir-Freundlich Isotherm. <i>Analytical Chemistry</i> , 2001, 73, 4584-4591.	6.5	457
2	Steps To Demarcate the Effects of Chromophore Aggregation and Planarization in Poly(phenyleneethynylene)s. 1. Rotationally Interrupted Conjugation in the Excited States of 1,4-Bis(phenylethynyl)benzene. <i>Journal of the American Chemical Society</i> , 2001, 123, 4259-4265.	13.7	335
3	Synthesis and assembly of self-complementary calix[4]arenes.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1995, 92, 12403-12407.	7.1	283
4	Discovery of Chiral Catalysts through Ligand Diversity: Ti-Catalyzed Enantioselective Addition of TMSCN to meso Epoxides. <i>Angewandte Chemie International Edition in English</i> , 1996, 35, 1668-1671.	4.4	279
5	Characterization of the heterogeneous binding site affinity distributions in molecularly imprinted polymers. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2004, 804, 141-149.	2.3	272
6	Application of the Freundlich adsorption isotherm in the characterization of molecularly imprinted polymers. <i>Analytica Chimica Acta</i> , 2001, 435, 35-42.	5.4	239
7	Colorimetric Molecularly Imprinted Polymer Sensor Array using Dye Displacement. <i>Journal of the American Chemical Society</i> , 2005, 127, 5695-5700.	13.7	223
8	Characterization of the Imprint Effect and the Influence of Imprinting Conditions on Affinity, Capacity, and Heterogeneity in Molecularly Imprinted Polymers Using the Freundlich Isotherm-Affinity Distribution Analysis. <i>Analytical Chemistry</i> , 2004, 76, 1123-1133.	6.5	215
9	High-Throughput Strategies for the Discovery of Catalysts. <i>Chemistry - A European Journal</i> , 1998, 4, 1885-1889.	3.3	162
10	Reversible Encapsulation of Guest Molecules in a Calixarene Dimer. <i>Angewandte Chemie International Edition in English</i> , 1996, 35, 1326-1329.	4.4	161
11	Search for Chiral Catalysts Through Ligand Diversity: Substrate-Specific Catalysts and Ligand Screening on Solid Phase. <i>Angewandte Chemie International Edition in English</i> , 1997, 36, 1704-1707.	4.4	143
12	Measurement of the continuous distribution of binding sites in molecularly imprinted polymers. <i>Analyst</i> , 2000, 125, 1261-1265.	3.5	141
13	NMR and Theoretical Study of Acidity Probes on Sulfated Zirconia Catalysts. <i>Journal of the American Chemical Society</i> , 2000, 122, 12561-12570.	13.7	120
14	Self-Assembled Nanotubes that Reversibly Bind Acetic Acid Guests. <i>Journal of the American Chemical Society</i> , 2003, 125, 14972-14973.	13.7	114
15	The first π -two-over/two-under π ™ (2O/2U) 2D weave structure assembled from Hg-containing 1D coordination polymer chains. <i>Chemical Communications</i> , 2003, , 1630-1631.	4.1	114
16	Solid-State Structures of Phenyleneethynylene: Comparison of Monomers and Polymers. <i>Chemistry of Materials</i> , 1999, 11, 1416-1424.	6.7	113
17	Molecularly imprinted polymer sensor arrays. <i>Current Opinion in Chemical Biology</i> , 2010, 14, 743-750.	6.1	106
18	A critical examination of the use of the Freundlich isotherm in characterizing molecularly imprinted polymers (MIPs). <i>Analytica Chimica Acta</i> , 2005, 528, 107-113.	5.4	102

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19	Additivity of Substituent Effects in Aromatic Stacking Interactions. <i>Journal of the American Chemical Society</i> , 2014, 136, 14060-14067.	13.7	102
20	A Rigid Molecular Balance for Measuring Face-to-Face Arene-Arene Interactions. <i>Organic Letters</i> , 2008, 10, 3547-3550.	4.6	96
21	Proton Grease: An Acid Accelerated Molecular Rotor. <i>Journal of the American Chemical Society</i> , 2012, 134, 3675-3678.	13.7	92
22	Entwicklung von chiralen Katalysatoren durch kombinatorische Ligandenvariation – Ti-katalysierte enantioselektive Addition von TMSCN an <i>meso</i> -Epoxyde. <i>Angewandte Chemie</i> , 1996, 108, 1776-1779.	2.0	89
23	How important are dispersion interactions to the strength of aromatic stacking interactions in solution?. <i>Chemical Science</i> , 2015, 6, 4358-4364.	7.4	86
24	Molecularly Imprinted Polymers with Metalloporphyrin-Based Molecular Recognition Sites Coassembled with Methacrylic Acid. <i>Analytical Chemistry</i> , 2001, 73, 3869-3874.	6.5	82
25	Convergent Functional Groups. 15. Synthetic and Structural Studies of Large and Rigid Molecular Clefts. <i>Journal of the American Chemical Society</i> , 1994, 116, 5145-5149.	13.7	81
26	Importance of Functional Monomer Dimerization in the Molecular Imprinting Process. <i>Macromolecules</i> , 2010, 43, 6284-6294.	4.8	80
27	Do Deuteriums Form Stronger CH ₂ ...F Interactions?. <i>Journal of the American Chemical Society</i> , 2012, 134, 14306-14309.	13.7	80
28	Self-assembly of a bis-urea macrocycle into a columnar nanotube. <i>Chemical Communications</i> , 2001, , 1592-1593.	4.1	76
29	A Molecular Balance for Measuring Aliphatic CH ₂ ...F Interactions. <i>Organic Letters</i> , 2011, 13, 4320-4323.	4.6	76
30	Stabilizing Fluorine...F Interactions. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 7209-7212.	13.8	75
31	Measurement of Silver...F Interactions in Solution Using Molecular Torsion Balances. <i>Journal of the American Chemical Society</i> , 2015, 137, 8014-8017.	13.7	74
32	Preparation of cationic cobaltocenium polymers and block copolymers by α -living ring-opening metathesis polymerization. <i>Chemical Science</i> , 2012, 3, 580-583.	7.4	69
33	Colorimetric and fluorometric molecularly imprinted polymer sensors and binding assays. <i>Polymer International</i> , 2007, 56, 482-488.	3.1	68
34	Recognition Directed Site-Selective Chemical Modification of Molecularly Imprinted Polymers. <i>Macromolecules</i> , 2001, 34, 8446-8452.	4.8	66
35	Distance-Dependent Attractive and Repulsive Interactions of Bulky Alkyl Groups. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 8086-8089.	13.8	65
36	Molecularly imprinted polymer sensor arrays Electronic supplementary information (ESI) available: experimental details. See http://www.rsc.org/suppdata/cc/b4/b401677g/ . <i>Chemical Communications</i> , 2004, , 1172.	4.1	63

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37	Comprehensive Experimental Study of π -Heterocyclic π -Stacking Interactions of Neutral and Cationic Pyridines. <i>Journal of Organic Chemistry</i> , 2013, 78, 5303-5313.	3.2	61
38	Synthesis and Structural Characterization of Novel Organometallic Dehydroannulenes with Fused CpCo-Cyclobutadiene and Ferrocene Units Including a Cyclic Fullerenyne Segment. <i>Journal of the American Chemical Society</i> , 1999, 121, 10719-10726.	13.7	59
39	Synergy between experimental and computational studies of aromatic stacking interactions. <i>Organic and Biomolecular Chemistry</i> , 2017, 15, 1554-1564.	2.8	58
40	Surface-Catalyzed Transformations of Aqueous Endosulfan. <i>Environmental Science & Technology</i> , 2002, 36, 4846-4853.	10.0	47
41	A High-Barrier Molecular Balance for Studying Face-to-Face Arene-Arene Interactions in the Solid State and in Solution. <i>Chemistry - A European Journal</i> , 2009, 15, 9117-9126.	3.3	43
42	Experimental Study of the Cooperativity of $\text{CH}\cdots\text{H}$ Interactions. <i>Organic Letters</i> , 2014, 16, 3520-3523.	4.6	43
43	Carbohydrate Recognition by Porphyrin-Based Molecularly Imprinted Polymers. <i>Organic Letters</i> , 2005, 7, 963-966.	4.6	41
44	An axially chiral phosphine ligand based on restricted rotation in N-arylimides. <i>Tetrahedron Letters</i> , 2001, 42, 7185-7187.	1.4	40
45	Conformationally Imprinted Receptors: Atropisomers with Write, Save, and Erase Recognition Properties. <i>Organic Letters</i> , 2005, 7, 4079-4081.	4.6	39
46	A Conformationally Programmable Ligand. <i>Journal of the American Chemical Society</i> , 2001, 123, 7463-7464.	13.7	37
47	Electrostatically Driven $\text{CO}\cdots\text{H}$ Aromatic Interactions. <i>Journal of the American Chemical Society</i> , 2019, 141, 12513-12517.	13.7	37
48	Synthesis, resolution and structure of axially chiral atropisomeric N-arylimides. <i>Tetrahedron Letters</i> , 2000, 41, 5431-5434.	1.4	35
49	Guest-Accelerated Molecular Rotor. <i>Organic Letters</i> , 2011, 13, 244-247.	4.6	35
50	Measurement of Solvent $\text{OH}\cdots\text{H}$ Interactions Using a Molecular Balance. <i>Journal of the American Chemical Society</i> , 2017, 139, 6550-6553.	13.7	35
51	Transition-State Stabilization by $\text{N}\cdots\text{H}$ Interactions Measured Using Molecular Rotors. <i>Journal of the American Chemical Society</i> , 2019, 141, 16579-16583.	13.7	35
52	Tipping the Balance between $\text{S}\cdots\text{H}$ and $\text{O}\cdots\text{H}$ Interactions. <i>Journal of the American Chemical Society</i> , 2018, 140, 13301-13307.	13.7	32
53	π -Arylimide Molecular Balances: A Comprehensive Platform for Studying Aromatic Interactions in Solution. <i>Accounts of Chemical Research</i> , 2020, 53, 2705-2714.	15.6	32
54	Stochastic Lattice Model Simulations of Molecularly Imprinted Polymers. <i>Chemistry of Materials</i> , 2008, 20, 4335-4346.	6.7	31

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55	Toward the development of prochelators as fluorescent probes of copper-mediated oxidative stress. Dalton Transactions, 2010, 39, 568-576.	3.3	31
56	A Small Molecule Diacid with Long-Term Chiral Memory. Organic Letters, 2009, 11, 2599-2602.	4.6	28
57	Measurement of Enantiomeric Excess Using Molecularly Imprinted Polymers. Organic Letters, 2002, 4, 2937-2940.	4.6	27
58	Molecules with Shape Memory Based on Restricted Rotation. Organic Letters, 2001, 3, 3757-3760.	4.6	26
59	Trans-spanning acetylenic bispyridine ligands: synthesis and structural characterization of novel organic and organometallic pseudodehydroannulenes. Journal of Organometallic Chemistry, 2003, 671, 43-51.	1.8	25
60	Origins of Selectivity in a Colorimetric Charge-Transfer Sensor for Diols. Organic Letters, 2008, 10, 2889-2892.	4.6	25
61	Correlation between Solid-State and Solution Conformational Ratios in a Series of <i>N</i> -(<i>o</i> -Tolyl)Succinimide Molecular Rotors. Crystal Growth and Design, 2015, 15, 3561-3564.	3.0	25
62	Covalent locking and unlocking of an atropisomeric molecular switch. Chemical Communications, 2012, 48, 1296-1298.	4.1	24
63	A rigid trans-spanning dinitrile ligand.. Proceedings of the National Academy of Sciences of the United States of America, 1996, 93, 4257-4260.	7.1	22
64	A fluorescent diastereoselective molecular sensor for 1,2-aminoalcohols based on the rhodamine B lactone-zwitterion equilibrium. Organic and Biomolecular Chemistry, 2010, 8, 1027.	2.8	22
65	Distance-Dependent Attractive and Repulsive Interactions of Bulky Alkyl Groups. Angewandte Chemie, 2016, 128, 8218-8221.	2.0	22
66	Synthesis and structural characterization of adaptable shape-persistent building blocks. Chemical Communications, 2000, , 929-930.	4.1	21
67	Steps To Demarcate the Effects of Chromophore Aggregation and Planarization in Poly(phenyleneethynylene)s. 1. Rotationally Interrupted Conjugation in the Excited States of 1,4-Bis(phenylethynyl)benzene [J. Am. Chem. Soc. 2001, 123, 4259-4265].. Journal of the American Chemical Society, 2002, 124, 8181-8181.	13.7	21
68	Molecular playdough: conformationally programmable molecular receptors based on restricted rotation. Organic and Biomolecular Chemistry, 2009, 7, 3899.	2.8	21
69	Rapid Screening of a Receptor with Molecular Memory. Organic Letters, 2006, 8, 2389-2392.	4.6	20
70	Suppression of background sites in molecularly imprinted polymers via urea-urea monomer aggregation. Organic and Biomolecular Chemistry, 2011, 9, 120-126.	2.8	20
71	A supramolecular switch with molecular memory. Chemical Communications, 2007, , 228-230.	4.1	18
72	A solution to dispersion interactions. Nature Chemistry, 2013, 5, 989-990.	13.6	18

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73	Stabilizing Fluorine–Fluorine Interactions. <i>Angewandte Chemie</i> , 2017, 129, 7315-7318.	2.0	18
74	Comparison of monofunctional and multifunctional monomers in phosphate binding molecularly imprinted polymers. <i>Journal of Molecular Recognition</i> , 2008, 21, 410-418.	2.1	17
75	The CH–F Interactions of Methyl Ethers as a Model for Carbohydrate–N-Heteroarene Interactions. <i>Organic Letters</i> , 2014, 16, 5064-5067.	4.6	17
76	Solvent-induced reversible solid-state colour change of an intramolecular charge-transfer complex. <i>Chemical Communications</i> , 2015, 51, 14809-14812.	4.1	15
77	Determination of the Rotational Barrier for Kinetically Stable Conformational Isomers via NMR and 2D TLC. <i>Journal of Chemical Education</i> , 2007, 84, 1499.	2.3	14
78	Guest control of a hydrogen bond-catalysed molecular rotor. <i>Chemical Communications</i> , 2017, 53, 12469-12472.	4.1	14
79	Study of through-space substituent–substituent interactions using N-phenylimide molecular balances. <i>Organic Chemistry Frontiers</i> , 2019, 6, 1266-1271.	4.5	13
80	A Chiral 28-Membered Macrocyclic with Symmetry and Structure Similar to That of trans-Cyclooctene. <i>Organic Letters</i> , 2002, 4, 723-726.	4.6	12
81	An N,N'-diaryl urea based conjugated polymer model system. <i>Tetrahedron Letters</i> , 2004, 45, 3229-3232.	1.4	12
82	Syntheses and solid state structures of europium and terbium complexes of N,N'-bis(2-pyridylmethyl)urea and N,N'-bis(3-pyridylmethyl)oxalamide. <i>Polyhedron</i> , 2004, 23, 711-717.	2.2	10
83	Large transition state stabilization from a weak hydrogen bond. <i>Chemical Science</i> , 2020, 11, 7487-7494.	7.4	10
84	Resist system based on the cationic photocrosslinking of poly(4-hydroxystyrene) and polyfunctional electrophiles. <i>Journal of Polymer Science Part A</i> , 1993, 31, 1-11.	2.3	9
85	Solvent Programmable Polymers Based on Restricted Rotation. <i>Journal of the American Chemical Society</i> , 2009, 131, 12062-12063.	13.7	9
86	Analysis of the Orbital and Electrostatic Contributions to the Lone Pair–Aromatic Interaction Using Molecular Rotors. <i>Organic Letters</i> , 2021, 23, 8179-8182.	4.6	9
87	Development of molecularly imprinted polymers as tailored templates for the solid-state [2+2] photodimerization. <i>Biosensors and Bioelectronics</i> , 2009, 25, 640-646.	10.1	8
88	Anion-enhanced solvophobic effects in organic solvent. <i>Chemical Communications</i> , 2018, 54, 8502-8505.	4.1	8
89	Absorption properties of monolithic poly (divinylbenzene-co-N-vinylpyrrolidone) over a wide range of monomer ratios. <i>Reactive and Functional Polymers</i> , 2021, 163, 104888.	4.1	8
90	Characterization of MIPs Using Heterogeneous Binding Models. <i>Materials Research Society Symposia Proceedings</i> , 2002, 723, 141.	0.1	7

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91	Plastic Antibodies: Molecular Recognition with Imprinted Polymers. An Introductory Polymer Chemistry Laboratory Investigation. <i>Journal of Chemical Education</i> , 2005, 82, 1374.	2.3	7
92	Electrostatically-gated molecular rotors. <i>Chemical Communications</i> , 2022, 58, 5869-5872.	4.1	7
93	Characterization of molecularly imprinted polymers using a new polar solvent titration method. <i>Journal of Molecular Recognition</i> , 2014, 27, 448-457.	2.1	6
94	Surprising variations in the rate of ring opening for a series of rhodamine lactams with similar equilibrium endpoints. <i>Sensors and Actuators B: Chemical</i> , 2014, 200, 1-8.	7.8	6
95	Shape-Persistent and Shape-Adaptable Macrocycles Based on Restricted Rotation: Studies Building Toward "Macromolecular Playdough"™. <i>Synthesis</i> , 2002, 2002, 1239.	2.3	4
96	[N,Nâ€²-Bis(2-pyridylmethyl)oxamidato]palladium(II) monohydrate chloroform hemisolvate. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2003, 59, m652-m654.	0.2	3
97	Reading polymer codes. <i>Nature Chemistry</i> , 2010, 2, 612-613.	13.6	3
98	CHAPTER 5. Solution-Phase Measurements of Aromatic Interactions. <i>Monographs in Supramolecular Chemistry</i> , 2016, , 124-171.	0.2	3
99	Binding Isotherms. , 2004, , 419-433.		2
100	Post Modification of Imprinted Polymers. , 2004, , 329-345.		1