Ken D Shimizu

List of Publications by Year
in descending order

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	Electrostatically-gated molecular rotors. Chemical Communications, 2022, 58, 5869-5872.	4.1	7
2	Absorption properties of monolithic poly (divinylbenzene-co-N-vinylpyrrolidone) over a wide range of monomer ratios. Reactive and Functional Polymers, 2021, 163, 104888.	4.1	8
3	Analysis of the Orbital and Electrostatic Contributions to the Lone Pairâ€“Aromatic Interaction Using Molecular Rotors. Organic Letters, 2021, 23, 8179-8182.	4.6	9
4	N-Arylimide Molecular Balances: A Comprehensive Platform for Studying Aromatic Interactions in Solution. Accounts of Chemical Research, 2020, 53, 2705-2714.	15.6	32
5	Large transition state stabilization from a weak hydrogen bond. Chemical Science, 2020, 11, 7487-7494.	7.4	10
6	Electrostatically Driven COâ‹¯Ï€ Aromatic Interactions. Journal of the American Chemical Society, 2019, 141, 12513-12517.	13.7	37
7	Transition-State Stabilization by nâ†’Ï€* Interactions Measured Using Molecular Rotors. Journal of the American Chemical Society, 2019, 141, 16579-16583.	13.7	35
8	Study of through-space substituentâ€“Ï€ interactions using N-phenylimide molecular balances. Organic Chemistry Frontiers, 2019, 6, 1266-1271.	4.5	13
9	Tipping the Balance between S-Ï€ and O-Ï€ Interactions. Journal of the American Chemical Society, 2018, 140, 13301-13307.	13.7	32
10	Anion-enhanced solvophobic effects in organic solvent. Chemical Communications, 2018, 54, 8502-8505.	4.1	8
11	Stabilizing Fluorineâ€“Ï€ Interactions. Angewandte Chemie, 2017, 129, 7315-7318.	2.0	18
12	Stabilizing Fluorineâ€“Ï€ Interactions. Angewandte Chemie - International Edition, 2017, 56, 7209-7212.	13.8	75
13	Measurement of Solvent OHâ‹¯Ï€ Interactions Using a Molecular Balance. Journal of the American Chemical Society, 2017, 139, 6550-6553.	13.7	35
14	Guest control of a hydrogen bond-catalysed molecular rotor. Chemical Communications, 2017, 53, 12469-12472.	4.1	14
15	Synergy between experimental and computational studies of aromatic stacking interactions. Organic and Biomolecular Chemistry, 2017, 15, 1554-1564.	2.8	58
16	Distanceâ€Dependent Attractive and Repulsive Interactions of Bulky Alkyl Groups. Angewandte Chemie, 2016, 128, 8218-8221.	2.0	22
17	Distanceâ€Dependent Attractive and Repulsive Interactions of Bulky Alkyl Groups. Angewandte Chemie - International Edition, 2016, 55, 8086-8089.	13.8	65
18	CHAPTER 5. Solution-Phase Measurements of Aromatic Interactions. Monographs in Supramolecular Chemistry, 2016, , 124-171.	0.2	3

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19	How important are dispersion interactions to the strength of aromatic stacking interactions in solution?. Chemical Science, 2015, 6, 4358-4364.	7.4	86
20	Measurement of Silverâ^Ï€ Interactions in Solution Using Molecular Torsion Balances. Journal of the American Chemical Society, 2015, 137, 8014-8017.	13.7	74
21	Correlation between Solid-State and Solution Conformational Ratios in a Series of N-(o-Tolyl)Succinimide Molecular Rotors. Crystal Growth and Design, 2015, 15, 3561-3564.	3.0	25
22	Solvent-induced reversible solid-state colour change of an intramolecular charge-transfer complex. Chemical Communications, 2015, 51, 14809-14812.	4.1	15
23	Characterization of molecularly imprinted polymers using a new polar solvent titration method. Journal of Molecular Recognition, 2014, 27, 448-457.	2.1	6
24	Surprising variations in the rate of ring opening for a series of rhodamine lactams with similar equilibrium endpoints. Sensors and Actuators B: Chemical, 2014, 200, 1-8.	7.8	6
25	The CHâ^Ï€ Interactions of Methyl Ethers as a Model for Carbohydrateâ€“N-Heteroarene Interactions. Organic Letters, 2014, 16, 5064-5067.	4.6	17
26	Experimental Study of the Cooperativity of CHâ^Ï€ Interactions. Organic Letters, 2014, 16, 3520-3523.	4.6	43
27	Additivity of Substituent Effects in Aromatic Stacking Interactions. Journal of the American Chemical Society, 2014, 136, 14060-14067.	13.7	102
28	A solution to dispersion interactions. Nature Chemistry, 2013, 5, 989-990.	13.6	18
29	Comprehensive Experimental Study of N-Heterocyclic Ï€-Stacking Interactions of Neutral and Cationic Pyridines. Journal of Organic Chemistry, 2013, 78, 5303-5313.	3.2	61
30	Proton Grease: An Acid Accelerated Molecular Rotor. Journal of the American Chemical Society, 2012, 134, 3675-3678.	13.7	92
31	Preparation of cationic cobaltoceniumpolymers and block copolymers by â€œlivingâ€•ring-opening metathesispolymerization. Chemical Science, 2012, 3, 580-583.	7.4	69
32	Do Deuteriums Form Stronger CHâ^Ï€ Interactions?. Journal of the American Chemical Society, 2012, 134, 14306-14309.	13.7	80
33	Covalent locking and unlocking of an atropisomeric molecular switch. Chemical Communications, 2012, 48, 1296-1298.	4.1	24
34	Suppression of background sites in molecularly imprinted polymersviaurea-urea monomer aggregation. Organic and Biomolecular Chemistry, 2011, 9, 120-126.	2.8	20
35	Guest-Accelerated Molecular Rotor. Organic Letters, 2011, 13, 244-247.	4.6	35
36	A Molecular Balance for Measuring Aliphatic CHâ^Ï€ Interactions. Organic Letters, 2011, 13, 4320-4323.	4.6	76

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37	Molecularly imprinted polymer sensor arrays. Current Opinion in Chemical Biology, 2010, 14, 743-750.	6.1	106
38	Reading polymer codes. Nature Chemistry, 2010, 2, 612-613.	13.6	3
39	Importance of Functional Monomer Dimerization in the Molecular Imprinting Process. Macromolecules, 2010, 43, 6284-6294.	4.8	80
40	A fluorescent diastereoselective molecular sensor for 1,2-aminoalcohols based on the rhodamine B lactoneâ€“zwitterion equilibrium. Organic and Biomolecular Chemistry, 2010, 8, 1027.	2.8	22
41	Toward the development of prochelators as fluorescent probes of copper-mediated oxidative stress. Dalton Transactions, 2010, 39, 568-576.	3.3	31
42	A Highâ€Barrier Molecular Balance for Studying Faceâ€toâ€Face Areneâ€“Arene Interactions in the Solid State and in Solution. Chemistry - A European Journal, 2009, 15, 9117-9126.	3.3	43
43	Development of molecularly imprinted polymers as tailored templates for the solid-state [2+2] photodimerization. Biosensors and Bioelectronics, 2009, 25, 640-646.	10.1	8
44	Solvent Programmable Polymers Based on Restricted Rotation. Journal of the American Chemical Society, 2009, 131, 12062-12063.	13.7	9
45	A Small Molecule Diacid with Long-Term Chiral Memory. Organic Letters, 2009, 11, 2599-2602.	4.6	28
46	Molecular playdough: conformationally programmable molecular receptors based on restricted rotation. Organic and Biomolecular Chemistry, 2009, 7, 3899.	2.8	21
47	Comparison of monofunctional and multifunctional monomers in phosphate binding molecularly imprinted polymers. Journal of Molecular Recognition, 2008, 21, 410-418.	2.1	17
48	Origins of Selectivity in a Colorimetric Charge-Transfer Sensor for Diols. Organic Letters, 2008, 10, 2889-2892.	4.6	25
49	Stochastic Lattice Model Simulations of Molecularly Imprinted Polymers. Chemistry of Materials, 2008, 20, 4335-4346.	6.7	31
50	A Rigid Molecular Balance for Measuring Face-to-Face Areneâ^'Arene Interactions. Organic Letters, 2008, 10, 3547-3550.	4.6	96
51	Determination of the Rotational Barrier for Kinetically Stable Conformational Isomers via NMR and 2D TLC. Journal of Chemical Education, 2007, 84, 1499.	2.3	14
52	A supramolecular switch with molecular memory. Chemical Communications, 2007, , 228-230.	4.1	18
53	Colorimetric and fluorometric molecularly imprinted polymer sensors and binding assays. Polymer International, 2007, 56, 482-488.	3.1	68
54	Rapid Screening of a Receptor with Molecular Memory. Organic Letters, 2006, 8, 2389-2392.	4.6	20

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55	A critical examination of the use of the Freundlich isotherm in characterizing molecularly imprinted polymers (MIPs). Analytica Chimica Acta, 2005, 528, 107-113.	5.4	102
56	Plastic Antibodies: Molecular Recognition with Imprinted Polymers. An Introductory Polymer Chemistry Laboratory Investigation. Journal of Chemical Education, 2005, 82, 1374.	2.3	7
57	Conformationally Imprinted Receptors:â€‰Atropisomers with â€œWriteâ€ â€œSaveâ€ and â€œEraseâ€•Recognition Properties. Organic Letters, 2005, 7, 4079-4081.	4.6	39
58	Colorimetric Molecularly Imprinted Polymer Sensor Array using Dye Displacement. Journal of the American Chemical Society, 2005, 127, 5695-5700.	13.7	223
59	Carbohydrate Recognition by Porphyrin-Based Molecularly Imprinted Polymers. Organic Letters, 2005, 7, 963-966.	4.6	41
60	An N,Nâ€²-diaryl urea based conjugated polymer model system. Tetrahedron Letters, 2004, 45, 3229-3232.	1.4	12
61	Characterization of the heterogeneous binding site affinity distributions in molecularly imprinted polymers. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2004, 804, 141-149.	2.3	272
62	Syntheses and solid state structures of europium and terbium complexes of N,Nâ€²-bis(2-pyridylmethyl)urea and N,Nâ€²-bis(3-pyridylmethyl)oxalamide. Polyhedron, 2004, 23, 711-717.	2.2	10
63	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. Analytical Chemistry, 2004, 76, 1123-1133.	6.5	215
64	Molecularly imprinted polymer sensor arraysElectronic supplementary information (ESI) available: experimental details. See http://www.rsc.org/suppdata/cc/b4/b401677g/. Chemical Communications, 2004, , 1172.	4.1	63
65	Post Modification of Imprinted Polymers. , 2004, , 329-345.		1
66	Binding Isotherms. , 2004, , 419-433.		2
67	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
68	[N,Nâ€²-Bis(2-pyridylmethyl)oxamidato]palladium(II) monohydrate chloroform hemisolvate. Acta Crystallographica Section E: Structure Reports Online, 2003, 59, m652-m654.	0.2	3
69	Self-Assembled Nanotubes that Reversibly Bind Acetic Acid Guests. Journal of the American Chemical Society, 2003, 125, 14972-14973.	13.7	114
70	The first â€˜two-over/two-underâ€™ (2O/2U) 2D weave structure assembled from Hg-containing 1D coordination polymer chains. Chemical Communications, 2003, , 1630-1631.	4.1	114
71	Shape-Persistent and Shape-Adaptable Macrocycles Based on Restricted Rotation: Studies Building Toward â€˜Macromolecular Playdoughâ€™. Synthesis, 2002, 2002, 1239.	2.3	4
72	Characterization of MIPs Using Heterogeneous Binding Models. Materials Research Society Symposia Proceedings, 2002, 723, 141.	0.1	7

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73	Surface-Catalyzed Transformations of Aqueous Endosulfan. Environmental Science & Technology, 2002, 36, 4846-4853.	10.0	47
74	A Chiral 28-Membered Macrocycle with Symmetry and Structure Similar to That oftrans-Cyclooctene. Organic Letters, 2002, 4, 723-726.	4.6	12
75	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, 4259â˜4265].. Journal of the American Chemical Society, 2002, 124, 8181-8181.	13.7	21
76	Measurement of Enantiomeric Excess Using Molecularly Imprinted Polymers. Organic Letters, 2002, 4, 2937-2940.	4.6	27
77	Characterization of Molecularly Imprinted Polymers with the Langmuirâ˜Freundlich Isotherm. Analytical Chemistry, 2001, 73, 4584-4591.	6.5	457
78	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. Journal of the American Chemical Society, 2001, 123, 4259-4265.	13.7	335
79	Recognition Directed Site-Selective Chemical Modification of Molecularly Imprinted Polymers. Macromolecules, 2001, 34, 8446-8452.	4.8	66
80	Molecularly Imprinted Polymers with Metalloporphyrin-Based Molecular Recognition Sites Coassembled with Methacrylic Acid. Analytical Chemistry, 2001, 73, 3869-3874.	6.5	82
81	Self-assembly of a bis-urea macrocycle into a columnar nanotube. Chemical Communications, 2001, , 1592-1593.	4.1	76
82	Molecules with Shape Memory Based on Restricted Rotation. Organic Letters, 2001, 3, 3757-3760.	4.6	26
83	A Conformationally Programmable Ligand. Journal of the American Chemical Society, 2001, 123, 7463-7464.	13.7	37
84	An axially chiral phosphine ligand based on restricted rotation in N -arylimides. Tetrahedron Letters, 2001, 42, 7185-7187.	1.4	40
85	Application of the Freundlich adsorption isotherm in the characterization of molecularly imprinted polymers. Analytica Chimica Acta, 2001, 435, 35-42.	5.4	239
86	Synthesis, resolution and structure of axially chiral atropisomeric N-arylimides. Tetrahedron Letters, 2000, 41, 5431-5434.	1.4	35
87	Synthesis and structural characterization of adaptable shape-persistent building blocks. Chemical Communications, 2000, , 929-930.	4.1	21
88	NMR and Theoretical Study of Acidity Probes on Sulfated Zirconia Catalysts. Journal of the American Chemical Society, 2000, 122, 12561-12570.	13.7	120
89	Measurement of the continuous distribution of binding sites in molecularly imprinted polymers. Analyst, The, 2000, 125, 1261-1265.	3.5	141
90	Synthesis and Structural Characterization of Novel Organometallic Dehydroannulenes with Fused CpCo-Cyclobutadiene and Ferrocene Units Including a Cyclic Fullerenyne Segment. Journal of the American Chemical Society, 1999, 121, 10719-10726.	13.7	59

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91	Solid-State Structures of Phenyleneethynylenes:â€‰ Comparison of Monomers and Polymers. Chemistry of Materials, 1999, 11, 1416-1424.	6.7	113
92	High-Throughput Strategies for the Discovery of Catalysts. Chemistry - A European Journal, 1998, 4, 1885-1889.	3.3	162
93	Search for Chiral Catalysts Through Ligand Diversity: Substrate-Specific Catalysts and Ligand Screening on Solid Phase. Angewandte Chemie International Edition in English, 1997, 36, 1704-1707.	4.4	143
94	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
95	Entwicklung von chiralen Katalysatoren durch kombinatorische Ligandenvariation â€“ Tiâ€katalysierte enantioselektive Addition von TMSCN an mesoâ€Epoxide. Angewandte Chemie, 1996, 108, 1776-1779.	2.0	89
96	Reversible Encapsulation of Guest Molecules in a Calixarene Dimer. Angewandte Chemie International Edition in English, 1996, 35, 1326-1329.	4.4	161
97	Discovery of Chiral Catalysts through Ligand Diversity: Ti-Catalyzed Enantioselective Addition of TMSCN tomeso Epoxides. Angewandte Chemie International Edition in English, 1996, 35, 1668-1671.	4.4	279
98	Synthesis and assembly of self-complementary calix[4]arenes.. Proceedings of the National Academy of Sciences of the United States of America, 1995, 92, 12403-12407.	7.1	283
99	Convergent Functional Groups. 15. Synthetic and Structural Studies of Large and Rigid Molecular Clefts. Journal of the American Chemical Society, 1994, 116, 5145-5149.	13.7	81
100	Resist system based on the cationic photocrosslinking of poly(4-hydroxystyrene) and polyfunctional electrophiles. Journal of Polymer Science Part A, 1993, 31, 1-11.	2.3	9