Kenneth N Raymond

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335 papers	30,371 citations	89 h-index	160 g-index
343 ext. papers	32,526 ext. citations	10.7 avg, IF	7.28 L-index

#	Paper	IF	Citations
335	Supermolecules by Design. *Accounts of Chemical Research*, **1999**, 32, 975-982	24.3	1227
334	The neutrophil lipocalin NGAL is a bacteriostatic agent that interferes with siderophore-mediated iron acquisition. *Molecular Cell*, **2002**, 10, 1033-43	17.6	1006
333	Selective molecular recognition, C-H bond activation, and catalysis in nanoscale reaction vessels. *Accounts of Chemical Research*, **2005**, 38, 349-58	24.3	883
332	Supramolecular catalysis in metal-ligand cluster hosts. *Chemical Reviews*, **2015**, 115, 3012-35	68.1	829
331	From antenna to assay: lessons learned in lanthanide luminescence. *Accounts of Chemical Research*, **2009**, 42, 542-52	24.3	826
330	Acid catalysis in basic solution: a supramolecular host promotes orthoformate hydrolysis. *Science*, **2007**, 316, 85-8	33.3	655
329	Enterobactin: an archetype for microbial iron transport. *Proceedings of the National Academy of Sciences of the United States of America*, **2003**, 100, 3584-8	11.5	621
328	Proton-mediated chemistry and catalysis in a self-assembled supramolecular host. *Accounts of Chemical Research*, **2009**, 42, 1650-9	24.3	529
327	Rational design of sequestering agents for plutonium and other actinides. *Chemical Reviews*, **2003**, 103, 4207-82	68.1	449
326	Reversible guest exchange mechanisms in supramolecular host-guest assemblies. *Chemical Society Reviews*, **2007**, 36, 161-71	58.5	407
325	Stable lanthanide luminescence agents highly emissive in aqueous solution: multidentate 2-hydroxyisophthalamide complexes of Sm(3+), Eu(3+), Tb(3+), Dy(3+). *Journal of the American Chemical Society*, **2003**, 125, 13324-5	16.4	404
324	The Self-Assembly of a Predesigned Tetrahedral M4L6 Supramolecular Cluster. *Angewandte Chemie - International Edition*, **1998**, 37, 1840-1843	16.4	389
323	The rational design of high symmetry coordination clusters *Journal of the Chemical Society Dalton Transactions*, **1999**, 1185-1200		361
322	High-relaxivity MRI contrast agents: where coordination chemistry meets medical imaging. *Angewandte Chemie - International Edition*, **2008**, 47, 8568-80	16.4	358
321	A supramolecular microenvironment strategy for transition metal catalysis. *Science*, **2015**, 350, 1235-8	33.3	291
320	Coordination chemistry and microbial iron transport. *Accounts of Chemical Research*, **1979**, 12, 183-190	24.3	283
319	A supramolecular approach to combining enzymatic and transition metal catalysis. *Nature Chemistry*, **2013**, 5, 100-3	17.6	279

318	Next generation, high relaxivity gadolinium MRI agents. *Bioconjugate Chemistry*, **2005**, 16, 3-8	6.3	277
317	Enzymelike catalysis of the Nazarov cyclization by supramolecular encapsulation. *Journal of the American Chemical Society*, **2010**, 132, 6938-40	16.4	273
316	Coordination chemistry of microbial iron transport compounds. 9. Stability constants for catechol models of enterobactin. *Journal of the American Chemical Society*, **1978**, 100, 5362-5370	16.4	270
315	Supramolecular catalysis of a unimolecular transformation: aza-Cope rearrangement within a self-assembled host. *Angewandte Chemie - International Edition*, **2004**, 43, 6748-51	16.4	249
314	Solution equilibria of enterobactin and metal-enterobactin complexes. *Inorganic Chemistry*, **1991**, 30, 906-911	5.1	248
313	Design, formation and properties of tetrahedral M(4)L(4) and M(4)L(6) supramolecular clusters. *Journal of the American Chemical Society*, **2001**, 123, 8923-38	16.4	247
312	Coordination chemistry of microbial iron transport compounds. 19. Stability constants and electrochemical behavior of ferric enterobactin and model complexes. *Journal of the American Chemical Society*, **1979**, 101, 6097-6104	16.4	245
311	Brilliant Sm, Eu, Tb, and Dy chiral lanthanide complexes with strong circularly polarized luminescence. *Journal of the American Chemical Society*, **2007**, 129, 77-83	16.4	244
310	The pathogen-associated iroA gene cluster mediates bacterial evasion of lipocalin 2. *Proceedings of the National Academy of Sciences of the United States of America*, **2006**, 103, 16502-7	11.5	228
309	Iron traffics in circulation bound to a siderocalin (Ngal)-catechol complex. *Nature Chemical Biology*, **2010**, 6, 602-9	11.7	224
308	Gd-hydroxypyridinone (HOPO)-based high-relaxivity magnetic resonance imaging (MRI) contrast agents. *Accounts of Chemical Research*, **2009**, 42, 938-47	24.3	214
307	Highly selective supramolecular catalyzed allylic alcohol isomerization. *Journal of the American Chemical Society*, **2007**, 129, 2746-7	16.4	206
306	The lanthanide contraction revisited. *Journal of the American Chemical Society*, **2007**, 129, 11153-60	16.4	206
305	Self-Assembled Tetrahedral Hosts as Supramolecular Catalysts. *Accounts of Chemical Research*, **2018**, 51, 2447-2455	24.3	198
304	Molecular recognition and stabilization of iminium ions in water. *Journal of the American Chemical Society*, **2006**, 128, 14464-5	16.4	192
303	Enantioselective catalysis of the aza-Cope rearrangement by a chiral supramolecular assembly. *Journal of the American Chemical Society*, **2009**, 131, 17530-1	16.4	189
302	The big squeeze: guest exchange in an M4L6 supramolecular host. *Journal of the American Chemical Society*, **2005**, 127, 7912-9	16.4	188
301	Supramolecular assembly dynamics. *Proceedings of the National Academy of Sciences of the United States of America*, **2002**, 99, 4793-6	11.5	188

300	Hydroalkoxylation catalyzed by a gold(I) complex encapsulated in a supramolecular host. *Journal of the American Chemical Society*, **2011**, 133, 7358-60	16.4	187
299	Synthetic, structural, and physical studies of titanium complexes of catechol and 3,5-di-tert-butylcatechol. *Inorganic Chemistry*, **1984**, 23, 1009-1016	5.1	185
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297	Symmetry-Based Metal Complex Cluster Formation. *Angewandte Chemie International Edition in English*, **1996**, 35, 1084-1086		184
296	Octadentate cages of Tb(III) 2-hydroxyisophthalamides: a new standard for luminescent lanthanide labels. *Journal of the American Chemical Society*, **2011**, 133, 19900-10	16.4	183
295	Selective Encapsulation of Aqueous Cationic Guests into a Supramolecular Tetrahedral [M4L6]12- Anionic Host1. *Journal of the American Chemical Society*, **1998**, 120, 8003-8004	16.4	176
294	Selective C-H bond activation by a supramolecular host-guest assembly. *Angewandte Chemie - International Edition*, **2004**, 43, 963-6	16.4	168
293	Enantioselective guest binding and dynamic resolution of cationic ruthenium complexes by a chiral metal-ligand assembly. *Journal of the American Chemical Society*, **2004**, 126, 3674-5	16.4	167
292	Superamolecular Self-Recognition and Self-Assembly in Gallium(III) Catecholamide Triple Helices. *Angewandte Chemie International Edition in English*, **1997**, 36, 1440-1442		163
291	Supramolecular catalysis of unimolecular rearrangements: substrate scope and mechanistic insights. *Journal of the American Chemical Society*, **2006**, 128, 10240-52	16.4	159
290	Anthrax pathogen evades the mammalian immune system through stealth siderophore production. *Proceedings of the National Academy of Sciences of the United States of America*, **2006**, 103, 18499-503	11.5	157
289	High relaxivity gadolinium hydroxypyridonate-viral capsid conjugates: nanosized MRI contrast agents. *Journal of the American Chemical Society*, **2008**, 130, 2546-52	16.4	156
288	Chiral amide directed assembly of a diastereo- and enantiopure supramolecular host and its application to enantioselective catalysis of neutral substrates. *Journal of the American Chemical Society*, **2013**, 135, 18802-5	16.4	151
287	Stabilization of reactive organometallic intermediates inside a self-assembled nanoscale host. *Angewandte Chemie - International Edition*, **2006**, 45, 745-8	16.4	151
286	Assembly of near-infrared luminescent lanthanide host(host-guest) complexes with a metallacrown sandwich motif. *Angewandte Chemie - International Edition*, **2011**, 50, 9660-4	16.4	150
285	Gadolinium complex of tris[(3-hydroxy-1-methyl-2-oxo-1,2-didehydropyridine-4-carboxamido)ethyl]-amine: A New Class of gadolinium magnetic resonance relaxation agents. *Journal of the American Chemical Society*, **1995**, 117, 7245-7246	16.4	145
284	Selbstorganisation eines supramolekularen tetraedrischen M4L6-Clusters. *Angewandte Chemie*, **1998**, 110, 1940-1943	3.6	136
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282	Resolution and Kinetic Stability of a Chiral Supramolecular Assembly Made of Labile Components. *Angewandte Chemie - International Edition*, **2001**, 40, 157-160	16.4	133
281	Aza Cope rearrangement of propargyl enammonium cations catalyzed by a self-assembled "nanozyme". *Journal of the American Chemical Society*, **2008**, 130, 10977-83	16.4	129
280	Scope and mechanism of the C-H bond activation reactivity within a supramolecular host by an iridium guest: a stepwise ion pair guest dissociation mechanism. *Journal of the American Chemical Society*, **2006**, 128, 9781-97	16.4	129
279	Supramolecular chirality: a reporter of structural memory. *Angewandte Chemie - International Edition*, **2003**, 42, 665-8	16.4	129
278	Symmetry-Driven Rational Design of a Tetrahedral Supramolecular Ti4L4 Cluster. *Angewandte Chemie - International Edition*, **1998**, 37, 1837-1839	16.4	127
277	Magnetic resonance contrast agents from viral capsid shells: a comparison of exterior and interior cargo strategies. *Nano Letters*, **2007**, 7, 2207-10	11.5	127
276	Dinuclear Catecholate Helicates: Their Inversion Mechanism. *Journal of the American Chemical Society*, **1996**, 118, 7221-7222	16.4	127
275	Selective monoterpene-like cyclization reactions achieved by water exclusion from reactive intermediates in a supramolecular catalyst. *Journal of the American Chemical Society*, **2012**, 134, 17873-6	16.4	126
274	Resolution of chiral, tetrahedral M4L6 metal-ligand hosts. *Journal of the American Chemical Society*, **2007**, 129, 15354-63	16.4	121
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272	Ferric ion sequestering agents. 6. The spectrophotometric and potentiometric evaluation of sulfonated tricatecholate ligands. *Journal of the American Chemical Society*, **1981**, 103, 2667-2675	16.4	115
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269	Supramolecular Chirality in Coordination Chemistry147-183		110
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266	Stereognostic coordination chemistry. 1. The design and synthesis of chelators for the uranyl ion. *Journal of the American Chemical Society*, **1992**, 114, 8138-8146	16.4	109
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261	Coordination chemistry of microbial iron transport. 49. The vanadium(IV) enterobactin complex: structural, spectroscopic, and electrochemical characterization. *Journal of the American Chemical Society*, **1993**, 115, 1842-1851	16.4	104
260	Guest exchange dynamics in an M4L6 tetrahedral host. *Journal of the American Chemical Society*, **2006**, 128, 1324-33	16.4	102
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256	Rational reduction of the conformational space of a siderophore analog through nonbonded interactions: the role of entropy in enterobactin. *Journal of the American Chemical Society*, **1993**, 115, 6466-6467	16.4	98
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251	Lord of the Rings: An Octameric Lanthanum Pyrazolonate Cluster Coordination Number Incommensurate Cluster Formation, Part 14. This research was supported by the NSF (CHE-9709621 and INT-9603212) and by NATO (SRG951516). We gratefully acknowledge Dr. Frederick J. Hollander for help in the crystal structure determination. Part 13: T. N. Parac, M.	16.4	95
250	Dynamic Isomerization of a Supramolecular Tetrahedral M4L6Cluster1. *Journal of the American Chemical Society*, **1999**, 121, 4200-4206 ational Edition, **2000**, 39, 2745-2747	16.4	94
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247	Specific sequestering agents for the actinides. 16. Synthesis and initial biological testing of polydentate oxohydroxypyridinecarboxylate ligands. *Journal of Medicinal Chemistry*, **1988**, 31, 11-8	8.3	90

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242	The hydrophobic effect drives the recognition of hydrocarbons by an anionic metal-ligand cluster. *Journal of the American Chemical Society*, **2007**, 129, 12094-5	16.4	85
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