

Ehud Keinan

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

96
papers

1,858
citations

23
h-index

42
g-index

127
ext. papers

2,084
ext. citations

7
avg, IF

4.48
L-index

#	Paper	IF	Citations
96	Programmable and autonomous computing machine made of biomolecules. <i>Nature</i> , 2001 , 414, 430-4	50.4	555
95	Chemical mimicry of viral capsid self-assembly. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007 , 104, 20731-6	11.5	92
94	Facile purification of rare cucurbiturils by affinity chromatography. <i>Organic Letters</i> , 2004 , 6, 1225-8	6.2	69
93	An Efficient Sol-Gel Reactor for Antibody-Catalyzed Transformations. <i>Chemistry of Materials</i> , 1997 , 9, 2258-2260	9.6	57
92	Applicable Properties of Cucurbiturils. <i>Israel Journal of Chemistry</i> , 2011 , 51, 646-663	3.4	56
91	Tandem Oxidative Cyclization with Rhenium Oxide. Total Synthesis of 17,18-bisepi-Goniocin. <i>Journal of the American Chemical Society</i> , 1997 , 119, 12014-12015	16.4	55
90	Diverse functionalization of corannulene: easy access to pentagonal superstructure. <i>Organic Letters</i> , 2009 , 11, 1063-6	6.2	52
89	Dual-functional semithiobambusurils. <i>Chemistry - A European Journal</i> , 2015 , 21, 536-40	4.8	50
88	Parallel biomolecular computation on surfaces with advanced finite automata. <i>Journal of the American Chemical Society</i> , 2005 , 127, 3935-43	16.4	47
87	Natural ozone scavenger prevents asthma in sensitized rats. <i>Bioorganic and Medicinal Chemistry</i> , 2005 , 13, 557-62	3.4	43
86	Oxidative polycyclizations with rhenium(VII) oxides. <i>Pure and Applied Chemistry</i> , 2002 , 74, 93-105	2.1	38
85	Antibody catalysis of a reaction otherwise strongly disfavoured in water. <i>Nature</i> , 1995 , 374, 143-6	50.4	37
84	Immunological Evolution of Catalysis 2005 , 1-29		36
83	Bistable cucurbituril rotaxanes without stoppers. <i>Chemistry - A European Journal</i> , 2012 , 18, 5589-605	4.8	33
82	Traceless Ligation of Cysteine Peptides Using Selective Deselenization. <i>Angewandte Chemie</i> , 2010 , 122, 7203-7207	3.6	32
81	Thermostable Enzymes in Organic Synthesis, 4. Tbadh-Catalyzed Preparation of Bifunctional Chirons. Total Synthesis of S-(+)-Z-Tetradec-5-En-13-Olide. <i>Biocatalysis</i> , 1990 , 3, 57-71		31
80	Total Synthesis of Goniocin and Cyclogoniodenin T. Unique Biosynthetic Implications. <i>Journal of the American Chemical Society</i> , 1998 , 120, 4017-4018	16.4	30

79	Total Synthesis of Trilobin. <i>Journal of Organic Chemistry</i> , 1999 , 64, 2381-2386	4.2	29
78	Switchable cucurbituril-bipyridine beacons. <i>Chemistry - A European Journal</i> , 2010 , 16, 9056-67	4.8	28
77	Multifarenes: new modular cavitands. <i>Chemical Communications</i> , 2014 , 50, 2494-7	5.8	24
76	A molecular cryptosystem for images by DNA computing. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 2883-7	16.4	24
75	Natural Catalytic Antibodies [Abzymes 2005 , 505-569		24
74	Using antibodies to perturb the coordination sphere of a transition metal complex. <i>Nature</i> , 1996 , 382, 339-41	50.4	24
73	Repulsive interaction can be a key design element of molecular rotary motors. <i>Journal of Organic Chemistry</i> , 2008 , 73, 8772-9	4.2	23
72	Chemisorbed monolayers of corannulene penta-thioethers on gold. <i>Langmuir</i> , 2013 , 29, 2217-23	4	22
71	Trisubstituted decacyclene derivatives: Bridging the gap between the carbonaceous mesophase and discotic liquid crystals. <i>Advanced Materials</i> , 1991 , 3, 251-254	24	21
70	Aza-Bambusurils En Route to Anion Transporters. <i>Chemistry - A European Journal</i> , 2016 , 22, 8848-54	4.8	21
69	Stereospecificity of hydrogen transfer by the NADP-linked alcohol dehydrogenase from the thermophilic bacterium <i>Thermoanaerobium brockii</i> . <i>International Journal of Peptide and Protein Research</i> , 1993 , 42, 490-5		20
68	Semithiobambus[6]uril is a transmembrane anion transporter. <i>Chemical Communications</i> , 2017 , 53, 7557-7560	7.860	19
67	The First Decade of Antibody Catalysis: Perspective and Prospects. <i>Israel Journal of Chemistry</i> , 1996 , 36, 113-119	3.4	19
66	Chemical mimicry of viral capsid self-assembly via corannulene-based pentatopic tectons. <i>Nature Communications</i> , 2019 , 10, 3443	17.4	17
65	The Synthetic Challenge of Thioglycolurils. <i>European Journal of Organic Chemistry</i> , 2014 , 2014, 933-940	3.2	17
64	A programmable biomolecular computing machine with bacterial phenotype output. <i>ChemBioChem</i> , 2007 , 8, 1255-60	3.8	17
63	Attractive Interactions between Heteroallenes and the Cucurbituril Portal. <i>Journal of the American Chemical Society</i> , 2017 , 139, 8138-8145	16.4	16
62	Enhanced anion binding by heteroatom replacement in bambusurils. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 13180-5	3.6	15

61	Encoding and processing of alphanumeric information by chemical mixtures. <i>ChemPhysChem</i> , 2009 , 10, 3303-9	3.2	15
60	Hetero-Bambusurils. <i>Israel Journal of Chemistry</i> , 2018 , 58, 449-460	3.4	14
59	Deca-heterosubstituted corannulenes. <i>Chemical Communications</i> , 2012 , 48, 5425-7	5.8	14
58	Prophylactic treatment of asthma by an ozone scavenger in a mouse model. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2015 , 25, 342-6	2.9	13
57	Catalytic Antibodies as Probes of Evolution: Modeling of a Primordial Glycosidase. <i>Angewandte Chemie International Edition in English</i> , 1996 , 35, 2628-2630		12
56	A Molecular Cryptosystem for Images by DNA Computing. <i>Angewandte Chemie</i> , 2012 , 124, 2937-2941	3.6	9
55	Corannulene ethers via Ullmann condensation. <i>Organic Letters</i> , 2009 , 11, 5146-9	6.2	9
54	Herbicide-resistance conferred by expression of a catalytic antibody in <i>Arabidopsis thaliana</i> . <i>Nature Biotechnology</i> , 2006 , 24, 713-7	44.5	9
53	Stereochemical Control in Palladium-catalyzed Allylic Etherification. <i>Israel Journal of Chemistry</i> , 1990 , 30, 305-313	3.4	8
52	Biologically Relevant Molecular Finite Automata. <i>Israel Journal of Chemistry</i> , 2011 , 51, 67-86	3.4	7
51	Intramolecular van der Waals Interactions Challenge Anion Binding in perthio-Bambusurils. <i>Chemistry - A European Journal</i> , 2019 , 25, 13336-13343	4.8	6
50	Palladium-Catalyzed 1,4-Reduction (Conjugate Reduction) 2767-2782		6
49	Flat corannulene: when a transition state becomes a stable molecule. <i>Chemical Science</i> , 2020 , 11, 13015-13025	9.4	5
48	Molecular computing with plant cell phenotype serving as quality controlled output. <i>Molecular BioSystems</i> , 2011 , 7, 1113-20		4
47	Gloomy forecast for the prophets of apocalypse and bright forecast for chemists. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 2667-72	16.4	3
46	Equatorial Sulfur Atoms in Bambusurils Spawn Cavity Collapse. <i>Organic Letters</i> , 2020 , 22, 204-208	6.2	3
45	Synthetic Evolution of the Multifarene Cavity from Planar Predecessors. <i>Chemistry - A European Journal</i> , 2018 , 24, 15319-15328	4.8	2
44	A 50-Year Long Lesson. <i>Israel Journal of Chemistry</i> , 2015 , 55, 1154-1155	3.4	2

43	Bessere Prognose für die Propheten der Apokalypse. Weitere Prognose für Chemiker. <i>Angewandte Chemie</i> , 2013 , 125, 2730-2735	3.6	2
42	Israel Journal of Chemistry: Its First 60 Years. <i>Israel Journal of Chemistry</i> , 2010 , 50, 8-14	3.4	2
41	ε-Multistriatin: The First Total Synthesis of a Natural Product via Antibody Catalysis. <i>Israel Journal of Chemistry</i> , 1996 , 36, 185-193	3.4	2
40	Framework Agreement for Collaboration between the Chemical Societies of Spain and Israel, Expoquimia, October 2, 2014, Barcelona. <i>Israel Journal of Chemistry</i> , 2015 , 55, 114-123	3.4	1
39	The 79th Annual Meeting of the Israel Chemical Society & Exhibition: February 4-8, 2014, Dan Panorama Hotel, Tel Aviv, Israel. <i>Israel Journal of Chemistry</i> , 2014 , 54, 395-412	3.4	1
38	Organometallics and C-H Activation: ICS Symposium Honoring Wolf Prize Laureate Robert G. Bergman, June 8, 2017, Technion Israel Institute of Technology, Haifa, Israel. <i>Israel Journal of Chemistry</i> , 2017 , 57, 1053-1066	3.4	1
37	Conference Report: Chemical Synthesis and Drug Discovery: ICS Symposium Honoring Wolf Prize Laureates K. C. Nicolaou and Stuart L. Schreiber, June 1, 2016, Technion Israel Institute of Technology, Haifa, Israel. <i>Israel Journal of Chemistry</i> , 2017 , 57, 340-352	3.4	1
36	Effective Area. <i>Smart Science</i> , 2015 , 3, 139-141	1.5	1
35	WHERE WAS THE CITY OF EPHRAIM?. <i>Palestine Exploration Quarterly</i> , 2015 , 147, 220-229	0.3	1
34	Theoretical Studies of Antibody Catalysis 2005 , 72-117		1
33	Selectivity with Catalytic Antibodies – What Can Be Achieved? 2005 , 370-417		1
32	Medicinal Potential of Catalytic Antibodies 2005 , 284-303		1
31	Reactive Immunization: A Unique Approach to Aldolase Antibodies 2005 , 304-335		1
30	Catalytic Antibodies as Mechanistic and Structural Models of Hydrolytic Enzymes 2005 , 418-453		1
29	Antibody Catalysis of Disfavored Chemical Reactions 2005 , 184-216		1
28	The 82nd Annual Meeting of the Israel Chemical Society, February 13-14, 2017, David Intercontinental Hotel, Tel-Aviv, Israel. <i>Israel Journal of Chemistry</i> , 2018 , 58, 151-175	3.4	1
27	Chemistry for our Future: The 6th Angewandte Symposium, February 15, 2017, Dan Panorama Hotel, Tel-Aviv, Israel. <i>Israel Journal of Chemistry</i> , 2018 , 58, 176-184	3.4	0
26	The 49th EuCheMS Conference on Stereochemistry (Bürgenstock Conference), Brunnen, Switzerland, May 4-9, 2014. <i>Israel Journal of Chemistry</i> , 2014 , 54, 1015-1026	3.4	0

- 25 The 18th Asian Chemical Congress and the 20th General Assembly of the Federation of Asian Chemical Societies (FACS): December 8–12, 2019, Taipei International Convention Center, Taiwan. *Israel Journal of Chemistry*, **2020**, 60, 907-934 3.4 ○
- 24 Metal-Directed Assembly and Metal-Organic Frameworks: ICS Symposium Honoring Wolf Prize Laureates Makoto Fujita and Omar M. Yaghi, May 30, 2018, Technion – Israel Institute of Technology, Haifa, Israel. *Israel Journal of Chemistry*, **2018**, 58, 1171-1184 3.4 ○
- 23 Joel Bernstein (1941–2019). *Angewandte Chemie*, **2019**, 131, 3726-3726 3.6
- 22 The 84th Annual Meeting of the Israel Chemical Society: February 12–13, 2019, David Intercontinental Hotel, Tel-Aviv, Israel. *Israel Journal of Chemistry*, **2019**, 59, 106-125 3.4
- 21 Joel Bernstein (1941-2019). *Angewandte Chemie - International Edition*, **2019**, 58, 3688 16.4
- 20 The 85th Annual Meeting of the Israel Chemical Society: February 18–19, 2020, The International Convention Center, Jerusalem, Israel. *Israel Journal of Chemistry*, **2020**, 60, 1077-1104 3.4
- 19 The 2nd Bowei Research Conference, January 3–5, 2020, Shangrila Dongshan River Boutique Hotel, Yilan, Taiwan. *Israel Journal of Chemistry*, **2020**, 60, 160-172 3.4
- 18 The 5th International Conference on Cucurbiturils (ICCB 2017), June 27–30 2017, Hotel Continental, Brno, Czech Republic. *Israel Journal of Chemistry*, **2018**, 58, 493-507 3.4
- 17 The 80th Annual Meeting of the Israel Chemical Society and Exhibition. *Israel Journal of Chemistry*, **2015**, 55, 1123-1143 3.4
- 16 Biomolecular Finite Automata **2012**, 145-179
- 15 The 4th EuCheMS Chemistry Congress (4ECC), Prague, Czech Republic, August 26–30, 2012. *Israel Journal of Chemistry*, **2013**, 53, 12-29 3.4
- 14 The 75th Annual Meeting of the Israel Chemical Society, Tel Aviv, David Intercontinental Hotel, January 25–26, 2010. *Israel Journal of Chemistry*, **2010**, 50, 255-261 3.4
- 13 Critical Analysis of Antibody Catalysis **2005**, 30-71
- 12 Structure and Function of Catalytic Antibodies **2005**, 153-183
- 11 Polyclonal Catalytic Antibodies **2005**, 470-490
- 10 Screening Methods for Catalytic Antibodies **2005**, 217-242
- 9 The Enterprise of Catalytic Antibodies: A Historical Perspective **2005**, 118-131
- 8 The Antibody-Catalyzed Water Oxidation Pathway **2005**, 336-349

- 7 Transition State Analogs \square Archetype Antigens for Catalytic Antibody Generation **2005**, 454-469
- 6 Katalytische Antikörper als Sonden für die Evolution von Enzymen: Modellierung einer frühen Glycosidase. *Angewandte Chemie*, **1996**, 108, 2800-2802 3.6
- 5 Reduction of β -Unsaturated carbonyl compounds 923-1022
- 4 Joel Bernstein (1941-2019). *Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials*, **2019**, 75, 113-114 1.8
- 3 Catalytic Formation of C-N Bonds: ICS Symposium Honoring Wolf Prize Laureates Stephen L. Buchwald and John F. Hartwig: May 29, 2019, Technion-Israel Institute of Technology, Haifa, Israel. *Israel Journal of Chemistry*, **2020**, 60, 490-500 3.4
- 2 The 81st Annual Meeting of the Israel Chemical Society and Exhibition. *Israel Journal of Chemistry*, **2016**, 56, 341-364 3.4
- 1 The 53rd Bürgenstock Conference, Brunnen, Switzerland, April 29-May 3, 2018. *Israel Journal of Chemistry*, **2018**, 58, 795-808 3.4