

# Khaleel I Assaf

## List of Publications by Year in descending order

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91  
papers

4,177  
citations

196777

29  
h-index

129628

63  
g-index

100  
all docs

100  
docs citations

100  
times ranked

3927  
citing authors

#	ARTICLE	IF	CITATIONS
1	A molecular dynamics study of the complexation of tryptophan, phenylalanine and tyrosine amino acids with cucurbit[7]uril. <i>Journal of Inclusion Phenomena and Macrocyclic Chemistry</i> , 2022, 102, 159-168.	0.9	5
2	Benzimidazoleâ€Piperazineâ€Coumarin/Cucurbit[7]uril Supramolecular Photoinduced Electron Transfer Fluorochromes for Detection of Carnosol by Stimuli-Responsive Dye Displacement and p <i>K<sub>a</sub></i> Tuning. <i>ACS Omega</i> , 2022, 7, 2356-2363.	1.6	2
3	Binding affinity of aniline-substituted dodecaborates to cyclodextrins. <i>Chemical Communications</i> , 2022, 58, 2363-2366.	2.2	6
4	Supramolecular Catalysis of a Catalysis-Resistant Dielsâ€Alder Reaction: Almost Theoretical Acceleration of Cyclopentadiene Dimerization inside Cucurbit[7]uril. <i>ACS Catalysis</i> , 2022, 12, 2261-2269.	5.5	21
5	Preparation, characterization, and biological activity study of thymoquinone-cucurbit[7]uril inclusion complex. <i>RSC Advances</i> , 2022, 12, 1982-1988.	1.7	5
6	Cinnamaldehydeâ€cucurbituril complex: investigation of loading efficiency and its role in enhancing cinnamaldehyde <i>in vitro</i> anti-tumor activity. <i>RSC Advances</i> , 2022, 12, 7540-7549.	1.7	14
7	Boron clusters as broadband membrane carriers. <i>Nature</i> , 2022, 603, 637-642.	13.7	62
8	Binary and Ternary Complexes of Cucurbit[8]uril with Tryptophan, Phenylalanine, and Tyrosine: A Computational Study. <i>ACS Omega</i> , 2022, 7, 10729-10737.	1.6	7
9	Cucurbit[7]uril recognition of glucosamine anomers in water. <i>Journal of Molecular Liquids</i> , 2022, 358, 119178.	2.3	5
10	<i>In situ</i> activation of green sorbents for CO <sub>2</sub> capture upon end group backbiting. <i>Physical Chemistry Chemical Physics</i> , 2022, 24, 12293-12299.	1.3	4
11	CS <sub>2</sub> /CO <sub>2</sub> Utilization Using Mukaiyama Reagent as a (Thio)carbonylating Promoter: A Proof-of-Concept Study. <i>ACS Omega</i> , 2022, 7, 22511-22521.	1.6	4
12	Hostâ€guest complexation between cucurbit[7]uril and doxepin induced supramolecular assembly. <i>Organic and Biomolecular Chemistry</i> , 2022, 20, 5796-5802.	1.5	1
13	Interfacial Behavior of Modified Nicotinic Acid as Conventional/Gemini Surfactants. <i>Langmuir</i> , 2022, 38, 8524-8533.	1.6	1
14	Investigation of spectroscopic properties and molecular dynamics simulations of the interaction of mebendazole with Î²-cyclodextrin. <i>Journal of the Iranian Chemical Society</i> , 2021, 18, 75-86.	1.2	4
15	Chemisorption of CO <sub>2</sub> by diamine-tetraamido macrocyclic motifs: a theoretical study. <i>Organic and Biomolecular Chemistry</i> , 2021, 19, 3873-3881.	1.5	5
16	Activation of Î²-diketones for CO <sub>2</sub> capture and utilization. <i>Reaction Chemistry and Engineering</i> , 2021, 6, 2364-2375.	1.9	4
17	Template-free synthesis of hybrid silica nanoparticle with functionalized mesostructure for efficient methylene blue removal. <i>Materials and Design</i> , 2021, 201, 109494.	3.3	20
18	Enhanced adsorption of CO <sub>2</sub> on cellulose and chitosan surface by H <sub>2</sub> O Co-adsorption. <i>Computational and Theoretical Chemistry</i> , 2021, 1204, 113413.	1.1	2

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19	Cross-linked, porous imidazolium-based poly(ionic liquid)s for CO <sub>2</sub> capture and utilisation. <i>New Journal of Chemistry</i> , 2021, 45, 16452-16460.	1.4	23
20	Mechanistic insights on CO <sub>2</sub> utilization using sustainable catalysis. <i>New Journal of Chemistry</i> , 2021, 45, 22280-22288.	1.4	11
21	CO <sub>2</sub> activation through C–N, C–O and C–C bond formation. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 1306-1312.	1.3	18
22	Host–Guest Chemistry Meets Electrocatalysis: Cucurbit[6]uril on a Au Surface as a Hybrid System in CO <sub>2</sub> Reduction. <i>ACS Catalysis</i> , 2020, 10, 751-761.	5.5	43
23	CO <sub>2</sub> coupling with epoxides catalysed by using one-pot synthesised, <i>in situ</i> activated zinc ascorbate under ambient conditions. <i>Dalton Transactions</i> , 2020, 49, 7673-7679.	1.6	10
24	Host–Guest Complexation Affects Perylene-Based Dye Aggregation. <i>ChemistrySelect</i> , 2020, 5, 5850-5854.	0.7	8
25	Face–Fusion of Icosahedral Boron Hydride Increases Affinity to <sup>13</sup> Cyclodextrin: closo, closo [B <sub>21</sub> H <sub>18</sub> ] as an Anion with Very Low Free Energy of Dehydration. <i>ChemPhysChem</i> , 2020, 21, 971-976.	1.0	14
26	New Metrics of Green Sorbents for CO <sub>2</sub> Capturing. <i>Advanced Sustainable Systems</i> , 2020, 4, 1900121.	2.7	13
27	Encapsulation of ionic liquids inside cucurbiturils. <i>Organic and Biomolecular Chemistry</i> , 2020, 18, 2120-2128.	1.5	4
28	Morphological and Interaction Characteristics of Surface-Active Ionic Liquids and Palmitic Acid in Mixed Monolayers. <i>ChemPhysChem</i> , 2020, 21, 1858-1865.	1.0	8
29	The eternal battle to combat global warming: (thio)urea as a CO <sub>2</sub> wet scrubbing agent. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 11829-11837.	1.3	13
30	Biomaterials for CO <sub>2</sub> Harvesting: From Regulatory Functions to Wet Scrubbing Applications. <i>ACS Omega</i> , 2019, 4, 11532-11539.	1.6	18
31	High-Affinity Binding of Metallocarborane Cobalt Bis(dicarbollide) Anions to Cyclodextrins and Application to Membrane Translocation. <i>Journal of Organic Chemistry</i> , 2019, 84, 11790-11798.	1.7	58
32	A Selective Cucurbit[8]uril–Peptide Beacon Ensemble for the Ratiometric Fluorescence Detection of Peptides. <i>Chemistry - A European Journal</i> , 2019, 25, 13088-13093.	1.7	18
33	Applications of Cucurbiturils in Medicinal Chemistry and Chemical Biology. <i>Frontiers in Chemistry</i> , 2019, 7, 619.	1.8	118
34	A catecholamine neurotransmitter: epinephrine as a CO <sub>2</sub> wet scrubbing agent. <i>Chemical Communications</i> , 2019, 55, 3449-3452.	2.2	18
35	Cucurbit[7]uril–Threaded Poly(3,4-ethylenedioxythiophene): A Novel Processable Conjugated Polyrotaxane. <i>European Journal of Organic Chemistry</i> , 2019, 2019, 3442-3450.	1.2	11
36	Ratiometric DNA sensing with a host–guest FRET pair. <i>Chemical Communications</i> , 2019, 55, 671-674.	2.2	39

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37	Selective Detection of Nitroexplosives Using Molecular Recognition within Self-Assembled Plasmonic Nanojunctions. <i>Journal of Physical Chemistry C</i> , 2019, 123, 15769-15776.	1.5	31
38	Versatile, one-pot introduction of nonahalogenated 2-ammonio-decaborate ions as boron cluster scaffolds into organic molecules; host-guest complexation with $\beta$ -cyclodextrin. <i>Chemical Communications</i> , 2019, 55, 13669-13672.	2.2	11
39	Preferential binding of unsaturated hydrocarbons in aryl-bisimidazolium-cucurbit[8]uril complexes furnishes evidence for small-molecule $\pi$ - $\pi$ interactions. <i>Chemical Science</i> , 2019, 10, 10240-10246.	3.7	12
40	Orthogonal Molecular Recognition of Chaotropic and Hydrophobic Guests Enables Supramolecular Architectures. <i>ChemNanoMat</i> , 2019, 5, 124-129.	1.5	12
41	Synthesis, Crystal Structure, Spectroscopic and Computational Studies of 2-[1-[2-(1,3-Dimethyl-4-nitro-1H-pyrazol-5-yl)hydrazono]ethyl]pyridine. <i>Heterocycles</i> , 2019, 98, 224.	0.4	1
42	Cucurbituril Properties and the Thermodynamic Basis of Host-Guest Binding. <i>Monographs in Supramolecular Chemistry</i> , 2019, , 54-85.	0.2	3
43	An efficient atom-economical chemoselective $\text{CO}_2$ cycloaddition using lanthanum oxide/tetrabutyl ammonium bromide. <i>Sustainable Energy and Fuels</i> , 2018, 2, 1342-1349.	2.5	29
44	Supramolecular assemblies through host-guest complexation between cucurbiturils and an amphiphilic guest molecule. <i>Chemical Communications</i> , 2018, 54, 1734-1737.	2.2	35
45	Inedible saccharides: a platform for $\text{CO}_2$ capturing. <i>Chemical Science</i> , 2018, 9, 1088-1100.	3.7	39
46	The chaotropic effect as an orthogonal assembly motif for multi-responsive dodecaborate-cucurbituril supramolecular networks. <i>Chemical Communications</i> , 2018, 54, 2098-2101.	2.2	62
47	Structural Effects on Guest Binding in Cucurbit[8]uril-Perylenemonoimide Host-Guest Complexes. <i>ChemistrySelect</i> , 2018, 3, 4699-4704.	0.7	11
48	A green sorbent for $\text{CO}_2$ capture: $\beta$ -cyclodextrin-based carbonate in DMSO solution. <i>RSC Advances</i> , 2018, 8, 37757-37764.	1.7	17
49	Cucurbit[7]uril Inclusion Complexes with Benzimidazole Derivatives: A Computational Study. <i>Journal of Solution Chemistry</i> , 2018, 47, 1768-1778.	0.6	3
50	Precise supramolecular control of surface coverage densities on polymer micro- and nanoparticles. <i>Chemical Science</i> , 2018, 9, 8575-8581.	3.7	17
51	A Supramolecular Approach for Enhanced Antibacterial Activity and Extended Shelf-life of Fluoroquinolone Drugs with Cucurbit[7]uril. <i>Scientific Reports</i> , 2018, 8, 13925.	1.6	48
52	The Chaotropic Effect as an Assembly Motif in Chemistry. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 13968-13981.	7.2	231
53	Der chaotrope Effekt als Aufbaumotiv in der Chemie. <i>Angewandte Chemie</i> , 2018, 130, 14164-14177.	1.6	42
54	Host-Guest Chemistry of Carboranes: Synthesis of Carboxylate Derivatives and Their Binding to Cyclodextrins. <i>Chemistry - A European Journal</i> , 2018, 24, 12970-12975.	1.7	24

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55	Hierarchical host-guest assemblies formed on dodecaborate-coated gold nanoparticles. <i>Chemical Communications</i> , 2017, 53, 4616-4619.	2.2	40
56	Binary twinned-icosahedral $B_{21}H_{18}$ interacts with cyclodextrins as a precedent for its complexation with other organic motifs. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 11748-11752.	1.3	26
57	Gold nanoparticle aggregation enables colorimetric sensing assays for enzymatic decarboxylation. <i>Analytical Methods</i> , 2017, 9, 2784-2787.	1.3	14
58	New insights into the chemistry of ionic alkylorganic carbonates: a computational study. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 15403-15411.	1.3	11
59	Polyrotaxanes based on PEG-amine with cucurbit[7]uril, $\beta$ -cyclodextrin and its tris-O-methylated derivative. <i>European Polymer Journal</i> , 2017, 93, 323-333.	2.6	15
60	Bis-tris propane in DMSO as a wet scrubbing agent: carbamic acid as a sequestered $CO_2$ species. <i>New Journal of Chemistry</i> , 2017, 41, 11941-11947.	1.4	24
61	Intracavity folding of a perylene dye affords a high-affinity complex with cucurbit[8]uril. <i>Chemical Communications</i> , 2017, 53, 9242-9245.	2.2	18
62	Chemisorption of $CO_2$ by chitosan oligosaccharide/DMSO: organic carbamate-carbonate bond formation. <i>Green Chemistry</i> , 2017, 19, 4305-4314.	4.6	42
63	HYDROPHOBE Challenge: A Joint Experimental and Computational Study on the Host-Guest Binding of Hydrocarbons to Cucurbiturils, Allowing Explicit Evaluation of Guest Hydration Free-Energy Contributions. <i>Journal of Physical Chemistry B</i> , 2017, 121, 11144-11162.	1.2	62
64	Pentaerythritol-Based Molecular Sorbent for $CO_2$ Capturing: A Highly Efficient Wet Scrubbing Agent Showing Proton Shuttling Phenomenon. <i>Energy &amp; Fuels</i> , 2017, 31, 8407-8414.	2.5	22
65	Tuning protonation states of tripeleannamine antihistamines by cucurbit[7]uril. <i>Journal of Physical Organic Chemistry</i> , 2016, 29, 101-106.	0.9	22
66	Chitin-acetate/DMSO as a supramolecular green $CO_2$ -phile. <i>RSC Advances</i> , 2016, 6, 22090-22093.	1.7	32
67	Cucurbit[7]uril-based fluorene polyrotaxanes. <i>European Polymer Journal</i> , 2016, 83, 256-264.	2.6	10
68	Nanomolar Binding of Steroids to Cucurbit[ <i>n</i> ]urils: Selectivity and Applications. <i>Journal of the American Chemical Society</i> , 2016, 138, 13022-13029.	6.6	143
69	High-affinity host-guest chemistry of large-ring cyclodextrins. <i>Organic and Biomolecular Chemistry</i> , 2016, 14, 7702-7706.	1.5	80
70	An investigation of carbon dioxide capture by chitin acetate/DMSO binary system. <i>Carbohydrate Polymers</i> , 2016, 152, 163-169.	5.1	36
71	Inclusion of neutral guests by water-soluble macrocyclic hosts - a comparative thermodynamic investigation with cyclodextrins, calixarenes and cucurbiturils. <i>Supramolecular Chemistry</i> , 2016, 28, 384-395.	1.5	45
72	Dodecaborate-Functionalized Anchor Dyes for Cyclodextrin-Based Indicator Displacement Applications. <i>Organic Letters</i> , 2016, 18, 932-935.	2.4	65

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73	Photophysical properties of neutral and dissociated forms of rosmarinic acid. <i>Journal of Luminescence</i> , 2016, 175, 50-56.	1.5	24
74	Water Structure Recovery in Chaotropic Anion Recognition: High-Affinity Binding of Dodecaborate Clusters to $\beta$ -Cyclodextrin. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 6852-6856.	7.2	214
75	Molecular dynamics simulation of a cucurbituril based molecular switch triggered by pH changes. <i>Computational and Theoretical Chemistry</i> , 2015, 1066, 104-112.	1.1	16
76	Molecular dynamics of nor-Seco-cucurbit[10]uril complexes. <i>Journal of Inclusion Phenomena and Macrocyclic Chemistry</i> , 2015, 82, 323-333.	0.9	17
77	Water Structure Recovery in Chaotropic Anion Recognition: High-Affinity Binding of Dodecaborate Clusters to $\beta$ -Cyclodextrin ( <i>Angew. Chem.</i> 23/2015). <i>Angewandte Chemie</i> , 2015, 127, 7046-7046.	1.6	1
78	Coulomb Repulsion in Short Polypeptides. <i>Journal of Physical Chemistry B</i> , 2015, 119, 33-43.	1.2	17
79	Triple Emission from <i>p</i> -Dimethylaminobenzonitrile-Cucurbit[8]uril Triggers the Elusive Excimer Emission. <i>Chemistry - A European Journal</i> , 2015, 21, 691-696.	1.7	44
80	Cucurbiturils: from synthesis to high-affinity binding and catalysis. <i>Chemical Society Reviews</i> , 2015, 44, 394-418.	18.7	1,100
81	Molecular dynamics simulation study of the structural features and inclusion capacities of cucurbit[6]uril derivatives in aqueous solutions. <i>Supramolecular Chemistry</i> , 2015, 27, 80-89.	1.5	13
82	Investigation of isomeric flavanol structures in black tea thearubigins using ultraperformance liquid chromatography coupled to hybrid quadrupole/ion mobility/time of flight mass spectrometry. <i>Journal of Mass Spectrometry</i> , 2014, 49, 1086-1095.	0.7	29
83	Cucurbiturils as fluorophilic receptors. <i>Supramolecular Chemistry</i> , 2014, 26, 657-669.	1.5	45
84	Chemistry inside molecular containers in the gas phase. <i>Nature Chemistry</i> , 2013, 5, 376-382.	6.6	144
85	Halogen Bonding inside a Molecular Container. <i>Journal of the American Chemical Society</i> , 2012, 134, 19935-19941.	6.6	119
86	Deep Inside Cucurbiturils: Physical Properties and Volumes of their Inner Cavity Determine the Hydrophobic Driving Force for Host-Guest Complexation. <i>Israel Journal of Chemistry</i> , 2011, 51, 559-577.	1.0	319
87	Molecular Dynamics of Methyl Viologen-Cucurbit[ <i>n</i> ]uril Complexes in Aqueous Solution. <i>Journal of Chemical Theory and Computation</i> , 2010, 6, 984-992.	2.3	45
88	Complexation of N-methyl-4-(p-methyl benzoyl)-pyridinium methyl cation and its neutral analogue by cucurbit[7]uril and $\beta$ -cyclodextrin: a computational study. <i>Journal of Inclusion Phenomena and Macrocyclic Chemistry</i> , 2009, 64, 357-365.	1.6	13
89	Template-Free Synthesis of Hybrid Silica Nanoparticle With Functionalized Mesostructure for Efficient Methylene Blue Removal. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
90	1 Host-guest Chemistry Meets Electrocatalysis: Cucurbit[6]uril on a Au Surface as Hybrid System in CO <sub>2</sub> Reduction. , 0, , .		0

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91	Host-guest Chemistry Meets Electrocatalysis: Cucurbit[6]uril on a Au Surface as Hybrid System in CO <sub>2</sub> Reduction. , 0, , .		0