Liat Avram

List of Publications by Citations

50 papers	3,212 citations	21 h-index	54 g-index
54 ext. papers	3,531 ext. citations	11.7 avg, IF	5.55 L-index

#	Paper	IF	Citations
50	Diffusion NMR spectroscopy in supramolecular and combinatorial chemistry: an old parameter--new insights. *Angewandte Chemie - International Edition*, **2005**, 44, 520-54	16.4	960
49	Diffusions-NMR-Spektroskopie in der Supramolekularen und Kombinatorischen Chemie: ein alter Parameter neue Erkenntnisse. *Angewandte Chemie*, **2005**, 117, 524-560	3.6	229
48	Spontaneous formation of hexameric resorcinarene capsule in chloroform solution as detected by diffusion NMR. *Journal of the American Chemical Society*, **2002**, 124, 15148-9	16.4	225
47	Diffusion NMR of molecular cages and capsules. *Chemical Society Reviews*, **2015**, 44, 586-602	58.5	183
46	Self-recognition, structure, stability, and guest affinity of pyrogallol[4]arene and resorcin[4]arene capsules in solution. *Journal of the American Chemical Society*, **2004**, 126, 11556-63	16.4	170
45	Recent advances in hydrogen-bonded hexameric encapsulation complexes. *Chemical Communications*, **2011**, 47, 5368-75	5.8	139
44	The role of water molecules in a resorcinarene capsule as probed by NMR diffusion measurements. *Organic Letters*, **2002**, 4, 4365-8	6.2	126
43	Resorcinarenes are hexameric capsules in solution. *Proceedings of the National Academy of Sciences of the United States of America*, **2006**, 103, 12296-300	11.5	124
42	Hexameric capsules of lipophilic pyrogallolarene and resorcinarene in solutions as probed by diffusion NMR: one hydroxyl makes the difference. *Organic Letters*, **2003**, 5, 3329-32	6.2	100
41	Reversible chromism of spiropyran in the cavity of a flexible coordination cage. *Nature Communications*, **2018**, 9, 641	17.4	97
40	Discrimination of guests encapsulation in large hexameric molecular capsules in solution: pyrogallol[4]arene versus resorcin[4]arene capsules. *Journal of the American Chemical Society*, **2003**, 125, 16180-1	16.4	87
39	Complexation in pseudorotaxanes based on alpha-cyclodextrin and different alpha,omega-diaminoalkanes by NMR diffusion measurements. *Journal of Organic Chemistry*, **2002**, 67, 2639-44	4.2	77
38	The effect of rotational angle and experimental parameters on the diffraction patterns and micro-structural information obtained from q-space diffusion NMR: implication for diffusion in white matter fibers. *Journal of Magnetic Resonance*, **2004**, 169, 30-8	3	68
37	Effect of a cationic guest on the characteristics of the molecular capsule of resorcinarene: a diffusion NMR study. *Organic Letters*, **2003**, 5, 1099-102	6.2	61
36	Molecules at close range: encapsulated solvent molecules in pyrogallol[4]arene hexameric capsules. *Organic Letters*, **2006**, 8, 219-22	6.2	54
35	Encapsulated or not encapsulated? Mapping alcohol sites in hexameric capsules of resorcin[4]arenes in solution by diffusion NMR spectroscopy. *Angewandte Chemie - International Edition*, **2010**, 49, 428-31	16.4	50
34	Diffusion measurements for molecular capsules: pulse sequences effect on water signal decay. *Journal of the American Chemical Society*, **2005**, 127, 5714-9	16.4	49

33	Self-assembly of resorcin[4]arene in the presence of small alkylammonium guests in solution. *Organic Letters*, **2008**, 10, 1505-8	6.2	42
32	Three-dimensional water diffusion in impermeable cylindrical tubes: theory versus experiments. *NMR in Biomedicine*, **2008**, 21, 888-98	4.4	41
31	Metal-Ligand Cooperation as Key in Formation of Dearomatized Ni-H Pincer Complexes and in Their Reactivity toward CO and CO. *Organometallics*, **2018**, 37, 2217-2221	3.8	27
30	Alginate-coated magnetic nanoparticles for noninvasive MRI of extracellular calcium. *NMR in Biomedicine*, **2014**, 27, 774-83	4.4	26
29	Quantifying Guest Exchange in Supramolecular Systems. *Angewandte Chemie - International Edition*, **2017**, 56, 15314-15318	16.4	21
28	Amplifying undetectable NMR signals to study host-guest interactions and exchange. *Chemical Science*, **2016**, 7, 6905-6909	9.4	21
27	Formation of thioesters by dehydrogenative coupling of thiols and alcohols with H2 evolution. *Nature Catalysis*, **2020**, 3, 887-892	36.5	19
26	Reversible switching of arylazopyrazole within a metal-organic cage. *Beilstein Journal of Organic Chemistry*, **2019**, 15, 2398-2407	2.5	17
25	Encapsulated or Not Encapsulated? Mapping Alcohol Sites in Hexameric Capsules of Resorcin[4]arenes in Solution by Diffusion NMR Spectroscopy. *Angewandte Chemie*, **2010**, 122, 438-441	3.6	17
24	Role of CB Receptor in the Recovery of Mice after Traumatic Brain Injury. *Journal of Neurotrauma*, **2019**, 36, 1836-1846	5.4	17
23	Unique organization of solvent molecules within the hexameric capsules of pyrogallol[4]arene in solution. *Organic Letters*, **2014**, 16, 5592-5	6.2	15
22	Hexameric Capsules Studied by Magic Angle Spinning Solid-State NMR Spectroscopy: Identifying Solvent Molecules in Pyrogallol[4]arene Capsules. *Angewandte Chemie - International Edition*, **2016**, 55, 904-7	16.4	14
21	Catalytic Hydrogenation of Thioesters, Thiocarbamates, and Thioamides. *Journal of the American Chemical Society*, **2020**, 142, 21628-21633	16.4	12
20	19F-GEST NMR: studying dynamic interactions in host–guest systems. *Organic Chemistry Frontiers*, **2019**, 6, 1503-1512	5.2	11
19	Inducing Defects in F-Nanocrystals Provides Paramagnetic-free Relaxation Enhancement for Improved Hotspot MRI. *Nano Letters*, **2020**, 20, 7207-7212	11.5	11
18	Diffusion NMR in Supramolecular Chemistry and Complexed Systems **2012**, 197-285		9
17	Dynamic Interactions in Synthetic Receptors: A Guest Exchange Saturation Transfer Study. *Chemistry - A European Journal*, **2019**, 25, 1687-1690	4.8	9
16	Encapsulation of Arenes within a Porous Molybdenum Oxide {Mo } Nanocapsule. *Chemistry - A European Journal*, **2016**, 22, 15231-15236	4.8	8

15	Elucidating dissociation activation energies in host-guest assemblies featuring fast exchange dynamics. *Chemical Science*, **2020**, 12, 865-871	9.4	8
14	In situ NMR reveals real-time nanocrystal growth evolution via monomer-attachment or particle-coalescence. *Nature Communications*, **2021**, 12, 229	17.4	8
13	Mechanistic Investigations of Ruthenium Catalyzed Dehydrogenative Thioester Synthesis and Thioester Hydrogenation. *ACS Catalysis*, **2021**, 11, 2795-2807	13.1	8
12	Quantifying Guest Exchange in Supramolecular Systems. *Angewandte Chemie*, **2017**, 129, 15516-15520	3.6	7
11	Diffusion NMR in Supramolecular Chemistry163-219		7
10	Guest Transition Metals in Host Inorganic Nanocapsules: Single Sites, Discrete Electron Transfer, and Atomic Scale Structure. *Journal of the American Chemical Society*, **2020**, 142, 14504-14512	16.4	6
9	Solution NMR of synthetic cavity containing supramolecular systems: what have we learned on and from?. *Chemical Communications*, **2021**, 57, 8856-8884	5.8	6
8	Versatile non-luminescent color palette based on guest exchange dynamics in paramagnetic cavitands. *Nature Communications*, **2021**, 12, 3072	17.4	5
7	Single Fluorinated Agent for Multiplexed F-MRI with Micromolar Detectability Based on Dynamic Exchange. *Angewandte Chemie - International Edition*, **2021**, 60, 15405-15411	16.4	5
6	Fast Ion-Chelate Dissociation Rate for MRI of Labile Zinc with Frequency-Specific Encodability. *Journal of the American Chemical Society*, **2021**, 143, 11751-11758	16.4	4
5	Hexameric Capsules Studied by Magic Angle Spinning Solid-State NMR Spectroscopy: Identifying Solvent Molecules in Pyrogallol[4]arene Capsules. *Angewandte Chemie*, **2016**, 128, 916-919	3.6	1
4	Direct Detection of Lithium Exchange across the Solid Electrolyte Interphase by 7Li Chemical Exchange Saturation Transfer. *Journal of the American Chemical Society*,	16.4	1
3	Iron-catalysed ring-opening metathesis polymerization of olefins and mechanistic studies. *Nature Catalysis*,	36.5	1
2	Cation-Ligand Complexation Mediates the Temporal Evolution of Colloidal Fluoride Nanocrystals through Transient Aggregation. *Nano Letters*, **2021**, 21, 9916-9921	11.5	0
1	Single Fluorinated Agent for Multiplexed 19F-MRI with Micromolar Detectability Based on Dynamic Exchange. *Angewandte Chemie*, **2021**, 133, 15533-15539	3.6	0