

Liat Avram

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/734562/publications.pdf>

Version: 2024-02-01

50
papers

3,785
citations

236925

25
h-index

175258

52
g-index

54
all docs

54
docs citations

54
times ranked

3377
citing authors

#	ARTICLE	IF	CITATIONS
1	Diffusion NMR Spectroscopy in Supramolecular and Combinatorial Chemistry: An Old Parameter? New Insights. <i>Angewandte Chemie - International Edition</i> , 2005, 44, 520-554.	13.8	1,029
2	Spontaneous Formation of Hexameric Resorcinarene Capsule in Chloroform Solution as Detected by Diffusion NMR. <i>Journal of the American Chemical Society</i> , 2002, 124, 15148-15149.	13.7	251
3	Diffusion NMR of molecular cages and capsules. <i>Chemical Society Reviews</i> , 2015, 44, 586-602.	38.1	230
4	Self-Recognition, Structure, Stability, and Guest Affinity of Pyrogallol[4]arene and Resorcin[4]arene Capsules in Solution. <i>Journal of the American Chemical Society</i> , 2004, 126, 11556-11563.	13.7	185
5	Recent advances in hydrogen-bonded hexameric encapsulation complexes. <i>Chemical Communications</i> , 2011, 47, 5368-5375.	4.1	166
6	Reversible chromism of spiropyran in the cavity of a flexible coordination cage. <i>Nature Communications</i> , 2018, 9, 641.	12.8	148
7	Resorcinarenes are hexameric capsules in solution. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 12296-12300.	7.1	141
8	The Role of Water Molecules in a Resorcinarene Capsule As Probed by NMR Diffusion Measurements. <i>Organic Letters</i> , 2002, 4, 4365-4368.	4.6	140
9	Hexameric Capsules of Lipophilic Pyrogallolarene and Resorcinarene in Solutions as Probed by Diffusion NMR: One Hydroxyl Makes the Difference. <i>Organic Letters</i> , 2003, 5, 3329-3332.	4.6	108
10	Discrimination of Guests Encapsulation in Large Hexameric Molecular Capsules in Solution: Pyrogallol[4]arene versus Resorcin[4]arene Capsules. <i>Journal of the American Chemical Society</i> , 2003, 125, 16180-16181.	13.7	95
11	Complexation in Pseudorotaxanes Based on β -Cyclodextrin and Different Diaminoalkanes by NMR Diffusion Measurements. <i>Journal of Organic Chemistry</i> , 2002, 67, 2639-2644.	3.2	82
12	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. <i>Journal of Magnetic Resonance</i> , 2004, 169, 30-38.	2.1	75
13	Effect of a Cationic Guest on the Characteristics of the Molecular Capsule of Resorcinarene: A Diffusion NMR Study. <i>Organic Letters</i> , 2003, 5, 1099-1102.	4.6	66
14	Molecules at Close Range: Encapsulated Solvent Molecules in Pyrogallol[4]arene Hexameric Capsules. <i>Organic Letters</i> , 2006, 8, 219-222.	4.6	62
15	Diffusion Measurements for Molecular Capsules: Pulse Sequences Effect on Water Signal Decay. <i>Journal of the American Chemical Society</i> , 2005, 127, 5714-5719.	13.7	52
16	Encapsulated or Not Encapsulated? Mapping Alcohol Sites in Hexameric Capsules of Resorcin[4]arenes in Solution by Diffusion NMR Spectroscopy. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 428-431.	13.8	52
17	Self-Assembly of Resorcin[4]arene in the Presence of Small Alkylammonium Guests in Solution. <i>Organic Letters</i> , 2008, 10, 1505-1508.	4.6	48
18	Three-dimensional water diffusion in impermeable cylindrical tubes: theory versus experiments. <i>NMR in Biomedicine</i> , 2008, 21, 888-898.	2.8	44

#	ARTICLE	IF	CITATIONS
19	Metal–Ligand Cooperation as Key in Formation of Dearomatized Ni ^{II} –H Pincer Complexes and in Their Reactivity toward CO and CO ₂ . <i>Organometallics</i> , 2018, 37, 2217-2221.	2.3	39
20	Reversible switching of arylazopyrazole within a metal–organic cage. <i>Beilstein Journal of Organic Chemistry</i> , 2019, 15, 2398-2407.	2.2	35
21	Alginate-coated magnetic nanoparticles for noninvasive MRI of extracellular calcium. <i>NMR in Biomedicine</i> , 2014, 27, 774-783.	2.8	33
22	Formation of thioesters by dehydrogenative coupling of thiols and alcohols with H ₂ evolution. <i>Nature Catalysis</i> , 2020, 3, 887-892.	34.4	32
23	Amplifying undetectable NMR signals to study host–guest interactions and exchange. <i>Chemical Science</i> , 2016, 7, 6905-6909.	7.4	29
24	Quantifying Guest Exchange in Supramolecular Systems. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 15314-15318.	13.8	28
25	Role of CB ₂ Receptor in the Recovery of Mice after Traumatic Brain Injury. <i>Journal of Neurotrauma</i> , 2019, 36, 1836-1846.	3.4	25
26	Catalytic Hydrogenation of Thioesters, Thiocarbamates, and Thioamides. <i>Journal of the American Chemical Society</i> , 2020, 142, 21628-21633.	13.7	22
27	Iron-catalysed ring-opening metathesis polymerization of olefins and mechanistic studies. <i>Nature Catalysis</i> , 2022, 5, 494-502.	34.4	19
28	Unique Organization of Solvent Molecules Within the Hexameric Capsules of Pyrogallol[4]arene in Solution. <i>Organic Letters</i> , 2014, 16, 5592-5595.	4.6	18
29	Inducing Defects in ¹⁹ F-Nanocrystals Provides Paramagnetic-free Relaxation Enhancement for Improved <i>In Vivo</i> Hotspot MRI. <i>Nano Letters</i> , 2020, 20, 7207-7212.	9.1	18
30	¹⁹ F-GEST NMR: studying dynamic interactions in host–guest systems. <i>Organic Chemistry Frontiers</i> , 2019, 6, 1503-1512.	4.5	17
31	Elucidating dissociation activation energies in host–guest assemblies featuring fast exchange dynamics. <i>Chemical Science</i> , 2021, 12, 865-871.	7.4	17
32	In situ NMR reveals real-time nanocrystal growth evolution via monomer-attachment or particle-coalescence. <i>Nature Communications</i> , 2021, 12, 229.	12.8	17
33	Mechanistic Investigations of Ruthenium Catalyzed Dehydrogenative Thioester Synthesis and Thioester Hydrogenation. <i>ACS Catalysis</i> , 2021, 11, 2795-2807.	11.2	17
34	Hexameric Capsules Studied by Magic Angle Spinning Solid-State NMR Spectroscopy: Identifying Solvent Molecules in Pyrogallol[4]arene Capsules. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 904-907.	13.8	16
35	Guest Transition Metals in Host Inorganic Nanocapsules: Single Sites, Discrete Electron Transfer, and Atomic Scale Structure. <i>Journal of the American Chemical Society</i> , 2020, 142, 14504-14512.	13.7	14
36	Versatile non-luminescent color palette based on guest exchange dynamics in paramagnetic cavitands. <i>Nature Communications</i> , 2021, 12, 3072.	12.8	14

#	ARTICLE	IF	CITATIONS
37	Solution NMR of synthetic cavity containing supramolecular systems: what have we learned on and from?. <i>Chemical Communications</i> , 2021, 57, 8856-8884.	4.1	14
38	Controlled Selectivity through Reversible Inhibition of the Catalyst: Stereodivergent Semihydrogenation of Alkynes. <i>Journal of the American Chemical Society</i> , 2022, 144, 13266-13275.	13.7	14
39	Single Fluorinated Agent for Multiplexed ¹⁹ F MRI with Micromolar Detectability Based on Dynamic Exchange. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 15405-15411.	13.8	13
40	Encapsulation of Arenes within a Porous Molybdenum Oxide {Mo ₁₃₂ } Nanocapsule. <i>Chemistry - A European Journal</i> , 2016, 22, 15231-15236.	3.3	12
41	Fast Ion-Chelate Dissociation Rate for <i>In Vivo</i> MRI of Labile Zinc with Frequency-Specific Encodability. <i>Journal of the American Chemical Society</i> , 2021, 143, 11751-11758.	13.7	12
42	Dynamic Interactions in Synthetic Receptors: A Guest Exchange Saturation Transfer Study. <i>Chemistry - A European Journal</i> , 2019, 25, 1687-1690.	3.3	11
43	A Kinetic Isotope Effect in the Formation of Lanthanide Phosphate Nanocrystals. <i>Journal of the American Chemical Society</i> , 2022, 144, 9451-9457.	13.7	9
44	Direct Detection of Lithium Exchange across the Solid Electrolyte Interphase by ⁷ Li Chemical Exchange Saturation Transfer. <i>Journal of the American Chemical Society</i> , 2022, 144, 9836-9844.	13.7	9
45	Diffusion NMR in Supramolecular Chemistry. , 0, , 163-219.		8
46	Quantifying Guest Exchange in Supramolecular Systems. <i>Angewandte Chemie</i> , 2017, 129, 15516-15520.	2.0	8
47	Coexistence of 1:1 and 2:1 inclusion complexes of indigo carmine. <i>Chemical Communications</i> , 2022, 58, 3461-3464.	4.1	5
48	Single Fluorinated Agent for Multiplexed ¹⁹ F MRI with Micromolar Detectability Based on Dynamic Exchange. <i>Angewandte Chemie</i> , 2021, 133, 15533-15539.	2.0	2
49	Cation-Ligand Complexation Mediates the Temporal Evolution of Colloidal Fluoride Nanocrystals through Transient Aggregation. <i>Nano Letters</i> , 2021, 21, 9916-9921.	9.1	2
50	Hexameric Capsules Studied by Magic Angle Spinning Solid-State NMR Spectroscopy: Identifying Solvent Molecules in Pyrogallol[4]arene Capsules. <i>Angewandte Chemie</i> , 2016, 128, 916-919.	2.0	1