

Anil Kumar Mehta

List of Publications by Year in descending order

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Version: 2024-02-01

60
papers

2,411
citations

201674

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times ranked

2620
citing authors

#	ARTICLE	IF	CITATIONS
1	β-Cyclodextrin Encapsulation of Synthetic AHLs: Drug Delivery Implications and Quorum Quenching Exploits. <i>ChemBioChem</i> , 2021, 22, 1292-1301.	2.6	9
2	Electrostatic Complementarity Drives Amyloid/Nucleic Acid Co-Assembly. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 358-363.	13.8	29
3	Electrostatic Complementarity Drives Amyloid/Nucleic Acid Co-Assembly. <i>Angewandte Chemie</i> , 2020, 132, 366-371.	2.0	8
4	Guest Inclusion Modulates Concentration and Persistence of Photogenerated Radicals in Assembled Triphenylamine Macrocycles. <i>Journal of the American Chemical Society</i> , 2020, 142, 502-511.	13.7	23
5	Mobilization of Iron Stored in Bacterioferritin Is Required for Metabolic Homeostasis in <i>Pseudomonas aeruginosa</i> . <i>Pathogens</i> , 2020, 9, 980.	2.8	8
6	Codon Harmonization of a Kir3.1-KirBac1.3 Chimera for Structural Study Optimization. <i>Biomolecules</i> , 2020, 10, 430.	4.0	11
7	Molecular complementarity and structural heterogeneity within co-assembled peptide β-sheet nanofibers. <i>Nanoscale</i> , 2020, 12, 4506-4518.	5.6	23
8	Liquid-Like Phases Preorder Peptides for Supramolecular Assembly. <i>ChemSystemsChem</i> , 2020, 2, e2000007.	2.6	5
9	NMR Crystallography: Evaluation of Hydrogen Positions in Hydromagnesite by ¹³ C{ ¹ H} REDOR Solid-State NMR and Density Functional Theory Calculation of Chemical Shielding Tensors. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 4210-4216.	13.8	18
10	NMR Crystallography: Evaluation of Hydrogen Positions in Hydromagnesite by ¹³ C{ ¹ H} REDOR Solid-State NMR and Density Functional Theory Calculation of Chemical Shielding Tensors. <i>Angewandte Chemie</i> , 2019, 131, 4254-4260.	2.0	2
11	Speciation and Dynamics in the [Co ₄ V ₂ W ₁₈ O ₆₈] ¹⁰⁻ /Co(II) _{aq} /Co ₂ O ₃ Catalytic Water Oxidation System. <i>ACS Catalysis</i> , 2018, 8, 11952-11959.	10.2	19
12	Design of multi-phase dynamic chemical networks. <i>Nature Chemistry</i> , 2017, 9, 799-804.	13.6	57
13	Catalytic diversity in self-propagating peptide assemblies. <i>Nature Chemistry</i> , 2017, 9, 805-809.	13.6	172
14	Spectroscopic Characterization of Adsorbed ¹³ CO ₂ on 3-Aminopropylsilyl-Modified SBA15 Mesoporous Silica. <i>Environmental Science & Technology</i> , 2017, 51, 6553-6559.	10.0	39
15	Polyoxometalate-based gelating networks for entrapment and catalytic decontamination. <i>Chemical Communications</i> , 2017, 53, 11480-11483.	4.1	56
16	Expanding the informational chemistries of life: peptide/RNA networks. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2017, 375, 20160356.	3.4	11
17	Multistep Conformation Selection in Amyloid Assembly. <i>Journal of the American Chemical Society</i> , 2017, 139, 17007-17010.	13.7	49
18	Design of Asymmetric Peptide Bilayer Membranes. <i>Journal of the American Chemical Society</i> , 2016, 138, 3579-3586.	13.7	72

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19	Defining the Dynamic Conformational Networks of Cross- β Peptide Assembly. Israel Journal of Chemistry, 2015, 55, 763-769.	2.3	16
20	Characterization of a Mixture of CO ₂ Adsorption Products in Hyperbranched Aminosilica Adsorbents by ¹³ C Solid-State NMR. Environmental Science & Technology, 2015, 49, 13684-13691.	10.0	45
21	Structural analysis of CXCR4 " Antagonist interactions using saturation-transfer double-difference NMR. Biochemical and Biophysical Research Communications, 2015, 466, 28-32.	2.1	12
22	Looked at Life from Both Sides Now. Life, 2014, 4, 887-902.	2.4	20
23	Imaging Nucleation, Growth and Heterogeneity in Self-Assembled Amyloid Phases. , 2014, , 27-36.		4
24	Kinetic Intermediates in Amyloid Assembly. Journal of the American Chemical Society, 2014, 136, 15146-15149.	13.7	85
25	Shape selection and multi-stability in helical ribbons. Applied Physics Letters, 2014, 104, .	3.3	51
26	Mapping amyloid- β (16-22) nucleation pathways using fluorescence lifetime imaging microscopy. Soft Matter, 2014, 10, 4162-4172.	2.7	23
27	Neurofibrillar Tangle Surrogates: Histone H1 Binding to Patterned Phosphotyrosine Peptide Nanotubes. Biochemistry, 2014, 53, 4225-4227.	2.5	30
28	Rational Design of Helical Nanotubes from Self-Assembly of Coiled-Coil Lock Washers. Journal of the American Chemical Society, 2013, 135, 15565-15578.	13.7	112
29	Copper(II)-Histidine Coordination Structure in a Fibrillar Amyloid β Peptide Fragment and Model Complexes Revealed by Electron Spin Echo Envelope Modulation Spectroscopy. ChemBioChem, 2013, 14, 1762-1771.	2.6	18
30	Context dependence of protein misfolding and structural strains in neurodegenerative diseases. Biopolymers, 2013, 100, 722-730.	2.4	13
31	Structural heterogeneities of self-assembled peptide nanomaterials. , 2012, , .		2
32	Origins of Chemical Evolution. Accounts of Chemical Research, 2012, 45, 2023-2024.	15.6	8
33	Digital and Analog Chemical Evolution. Accounts of Chemical Research, 2012, 45, 2189-2199.	15.6	43
34	Remodeling Cross- β Nanotube Surfaces with Peptide/Lipid Chimeras. Angewandte Chemie - International Edition, 2012, 51, 6635-6638.	13.8	40
35	Phase Networks of Cross- β Peptide Assemblies. Langmuir, 2012, 28, 6386-6395.	3.5	75
36	Peptides Organized as Bilayer Membranes. Angewandte Chemie - International Edition, 2010, 49, 4104-4107.	13.8	71

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37	Peptide membranes in chemical evolution. Current Opinion in Chemical Biology, 2009, 13, 652-659.	6.1	52
38	Templating Molecular Arrays in Amyloid's Cross- β Grooves. Journal of the American Chemical Society, 2009, 131, 10165-10172.	13.7	81
39	Nucleobase-Directed Amyloid Nanotube Assembly. Journal of the American Chemical Society, 2008, 130, 16867-16869.	13.7	50
40	Facial Symmetry in Protein Self-Assembly. Journal of the American Chemical Society, 2008, 130, 9829-9835.	13.7	233
41	Engineering metal ion coordination to regulate amyloid fibril assembly and toxicity. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 13313-13318.	7.1	131
42	Determination of Global Structure from Distance and Orientation Constraints in Biological Solids Using Solid-State NMR Spectroscopy. Journal of the American Chemical Society, 2007, 129, 15233-15239.	13.7	23
43	Boltzmann Statistics Rotational-Echo Double-Resonance Analysis. Journal of Physical Chemistry B, 2007, 111, 7802-7811.	2.6	26
44	Macroscale assembly of peptide nanotubes. Chemical Communications, 2007, , 2729.	4.1	57
45	Controlling amyloid growth in multiple dimensions. Amyloid: the International Journal of Experimental and Clinical Investigation: the Official Journal of the International Society of Amyloidosis, 2006, 13, 206-215.	3.0	44
46	The T-Taxol Conformation. Journal of Medicinal Chemistry, 2006, 49, 2478-2488.	6.4	31
47	Conformational and Quantitative Characterization of Oritavancin's Peptidoglycan Complexes in Whole Cells of Staphylococcus aureus by in Vivo ^{13}C and ^{15}N Labeling. Journal of Molecular Biology, 2006, 357, 1253-1262.	4.2	54
48	Local order in polycarbonate glasses by $^{13}\text{C}\{^{19}\text{F}\}$ rotational-echo double-resonance NMR. Journal of Polymer Science, Part B: Polymer Physics, 2006, 44, 2760-2775.	2.1	35
49	Structure of a Quinobenzoxazine's G-Quadruplex Complex by REDOR NMR. Biochemistry, 2004, 43, 11953-11958.	2.5	28
50	Rotational-echo double resonance of uniformly labeled ^{13}C clusters. Journal of Magnetic Resonance, 2003, 163, 188-191.	2.1	17
51	REDOR with a relative full-echo reference. Journal of Magnetic Resonance, 2003, 163, 182-187.	2.1	18
52	Conformation of a Bound Inhibitor of Blood Coagulant Factor Xa. Biochemistry, 2003, 42, 7942-7949.	2.5	13
53	Rotational-Echo Double Resonance Characterization of Vancomycin Binding Sites in Staphylococcus aureus. Biochemistry, 2002, 41, 6967-6977.	2.5	80
54	Rotational-Echo Double Resonance Characterization of the Effects of Vancomycin on Cell Wall Synthesis in Staphylococcus aureus. Biochemistry, 2002, 41, 13053-13058.	2.5	72

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55	Investigation of the Binding of Epimer A of the Covalent Hydrate of 6,7-Bis(trifluoromethyl)-8-d-ribityllumazine to a Recombinant F22WBacillus subtilisLumazine Synthase Mutant by $^{15}\text{N}\{^{19}\text{F}\}$ REDOR NMR. Journal of Organic Chemistry, 2002, 67, 2087-2092.	3.2	14
56	Location of Cholic Acid Sequestered by Core-Shell Nanoparticles Using REDOR NMR. Macromolecules, 2001, 34, 544-546.	4.8	25
57	Carbon-Proton Dipolar Decoupling in REDOR. Journal of Magnetic Resonance, 2000, 145, 156-158.	2.1	13
58	Properties of Transition Species in the Reaction of Hydroxyl with Ethane from ab Initio Calculations and Fits to Experimental Data. The Journal of Physical Chemistry, 1995, 99, 8661-8668.	2.9	27
59	Dynamics of Organic Reactions in Different Energy Levels from Cryogenic Rate Data. The Journal of Physical Chemistry, 1994, 98, 10148-10155.	2.9	1
60	On the Emerging Codes for Chemical Evolution. , 0, , 97-113.		0