# Anil Kumar Mehta

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/7117406/publications.pdf

Version: 2024-02-01

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|---|---|---|---|
| 60 papers | 2,411 citations | 201674 27 h-index | 206112 48 g-index |
| 61 all docs | 61 docs citations | 61 times ranked | 2620 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Facial Symmetry in Protein Self-Assembly. Journal of the American Chemical Society, 2008, 130, 9829-9835. | 13.7 | 233 |
| 2 | Catalytic diversity in self-propagating peptide assemblies. Nature Chemistry, 2017, 9, 805-809. | 13.6 | 172 |
| 3 | 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 |
| 4 | 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 |
| 5 | Kinetic Intermediates in Amyloid Assembly. Journal of the American Chemical Society, 2014, 136, 15146-15149. | 13.7 | 85 |
| 6 | Templating Molecular Arrays in Amyloidâ€™s Cross-Î² Grooves. Journal of the American Chemical Society, 2009, 131, 10165-10172. | 13.7 | 81 |
| 7 | Rotational-Echo Double Resonance Characterization of Vancomycin Binding Sites inStaphylococcus aureusâ€. Biochemistry, 2002, 41, 6967-6977. | 2.5 | 80 |
| 8 | Phase Networks of Cross-Î² Peptide Assemblies. Langmuir, 2012, 28, 6386-6395. | 3.5 | 75 |
| 9 | 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 |
| 10 | Design of Asymmetric Peptide Bilayer Membranes. Journal of the American Chemical Society, 2016, 138, 3579-3586. | 13.7 | 72 |
| 11 | Peptides Organized as Bilayer Membranes. Angewandte Chemie - International Edition, 2010, 49, 4104-4107. | 13.8 | 71 |
| 12 | Macroscale assembly of peptide nanotubes. Chemical Communications, 2007, , 2729. | 4.1 | 57 |
| 13 | Design of multi-phase dynamic chemical networks. Nature Chemistry, 2017, 9, 799-804. | 13.6 | 57 |
| 14 | Polyoxometalate-based gelating networks for entrapment and catalytic decontamination. Chemical Communications, 2017, 53, 11480-11483. | 4.1 | 56 |
| 15 | Conformational and Quantitative Characterization of Oritavancinâ€“Peptidoglycan Complexes in Whole Cells of Staphylococcus aureus by in Vivo 13C and 15N Labeling. Journal of Molecular Biology, 2006, 357, 1253-1262. | 4.2 | 54 |
| 16 | Peptide membranes in chemical evolutionâ˜†. Current Opinion in Chemical Biology, 2009, 13, 652-659. | 6.1 | 52 |
| 17 | Shape selection and multi-stability in helical ribbons. Applied Physics Letters, 2014, 104, . | 3.3 | 51 |
| 18 | Nucleobase-Directed Amyloid Nanotube Assembly. Journal of the American Chemical Society, 2008, 130, 16867-16869. | 13.7 | 50 |

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|---|---|---|---|
| 19 | Multistep Conformation Selection in Amyloid Assembly. Journal of the American Chemical Society, 2017, 139, 17007-17010. | 13.7 | 49 |
| 20 | Characterization of a Mixture of CO<sub>2</sub> Adsorption Products in Hyperbranched Aminosilica Adsorbents by <sup>13</sup>C Solid-State NMR. Environmental Science & Technology, 2015, 49, 13684-13691. | 10.0 | 45 |
| 21 | 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 |
| 22 | Digital and Analog Chemical Evolution. Accounts of Chemical Research, 2012, 45, 2189-2199. | 15.6 | 43 |
| 23 | Remodeling Crossâ€Î² Nanotube Surfaces with Peptide/Lipid Chimeras. Angewandte Chemie - International Edition, 2012, 51, 6635-6638. | 13.8 | 40 |
| 24 | Spectroscopic Characterization of Adsorbed <sup>13</sup>CO<sub>2</sub> on 3-Aminopropylsilyl-Modified SBA15 Mesoporous Silica. Environmental Science & Technology, 2017, 51, 6553-6559. | 10.0 | 39 |
| 25 | Local order in polycarbonate glasses by 13 C{19 F} rotational-echo double-resonance NMR. Journal of Polymer Science, Part B: Polymer Physics, 2006, 44, 2760-2775. | 2.1 | 35 |
| 26 | The T-Taxol Conformation. Journal of Medicinal Chemistry, 2006, 49, 2478-2488. | 6.4 | 31 |
| 27 | Neurofibrillar Tangle Surrogates: Histone H1 Binding to Patterned Phosphotyrosine Peptide Nanotubes. Biochemistry, 2014, 53, 4225-4227. | 2.5 | 30 |
| 28 | Electrostatic Complementarity Drives Amyloid/Nucleic Acid Coâ€Assembly. Angewandte Chemie - International Edition, 2020, 59, 358-363. | 13.8 | 29 |
| 29 | Structure of a Quinobenzoxazineâ^'G-Quadruplex Complex by REDOR NMR. Biochemistry, 2004, 43, 11953-11958. | 2.5 | 28 |
| 30 | 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 |
| 31 | Boltzmann Statistics Rotational-Echo Double-Resonance Analysis. Journal of Physical Chemistry B, 2007, 111, 7802-7811. | 2.6 | 26 |
| 32 | Location of Cholic Acid Sequestered by Coreâ^'Shell Nanoparticles Using REDOR NMR. Macromolecules, 2001, 34, 544-546. | 4.8 | 25 |
| 33 | 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 |
| 34 | Mapping amyloid-Î²(16-22) nucleation pathways using fluorescence lifetime imaging microscopy. Soft Matter, 2014, 10, 4162-4172. | 2.7 | 23 |
| 35 | Guest Inclusion Modulates Concentration and Persistence of Photogenerated Radicals in Assembled Triphenylamine Macrocycles. Journal of the American Chemical Society, 2020, 142, 502-511. | 13.7 | 23 |
| 36 | Molecular complementarity and structural heterogeneity within co-assembled peptide Î²-sheet nanofibers. Nanoscale, 2020, 12, 4506-4518. | 5.6 | 23 |

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|---|---|---|---|
| 37 | Looked at Life from Both Sides Now. Life, 2014, 4, 887-902. | 2.4 | 20 |
| 38 | Speciation and Dynamics in the [Co<sub>4</sub>V<sub>2</sub>W<sub>18</sub>O<sub>68</sub>]<sup>10â€“</sup>/Co(II)<sub>aq</sub>/Co(II)<sub>aq</sub>x</sub> Catalytic Water Oxidation System. ACS Catalysis, 2018, 8, 11952-11959. | 10.2 | 19 |
| 39 | REDOR with a relative full-echo reference. Journal of Magnetic Resonance, 2003, 163, 182-187. | 2.1 | 18 |
| 40 | Copper(II)â€bisâ€Histidine Coordination Structure in a Fibrillar Amyloid Î²â€Peptide Fragment and Model Complexes Revealed by Electron Spin Echo Envelope Modulation Spectroscopy. ChemBioChem, 2013, 14, 1762-1771. | 2.6 | 18 |
| 41 | NMR Crystallography: Evaluation of Hydrogen Positions in Hydromagnesite by <sup>13</sup>C{<sup>1</sup>H} REDOR Solidâ€State NMR and Density Functional Theory Calculation of Chemical Shielding Tensors. Angewandte Chemie - International Edition, 2019, 58, 4210-4216. | 13.8 | 18 |
| 42 | Rotational-echo double resonance of uniformly labeled 13C clusters. Journal of Magnetic Resonance, 2003, 163, 188-191. | 2.1 | 17 |
| 43 | Defining the Dynamic Conformational Networks of Crossâ€Î² Peptide Assembly. Israel Journal of Chemistry, 2015, 55, 763-769. | 2.3 | 16 |
| 44 | 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 by15N{19F} REDOR NMR. Journal of Organic Chemistry, 2002, 67, 2087-2092. | 3.2 | 14 |
| 45 | Carbon-Proton Dipolar Decoupling in REDOR. Journal of Magnetic Resonance, 2000, 145, 156-158. | 2.1 | 13 |
| 46 | Conformation of a Bound Inhibitor of Blood Coagulant Factor Xa. Biochemistry, 2003, 42, 7942-7949. | 2.5 | 13 |
| 47 | Context dependence of protein misfolding and structural strains in neurodegenerative diseases. Biopolymers, 2013, 100, 722-730. | 2.4 | 13 |
| 48 | Structural analysis of CXCR4 â€“ Antagonist interactions using saturation-transfer double-difference NMR. Biochemical and Biophysical Research Communications, 2015, 466, 28-32. | 2.1 | 12 |
| 49 | Expanding the informational chemistries of life: peptide/RNA networks. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2017, 375, 20160356. | 3.4 | 11 |
| 50 | Codon Harmonization of a Kir3.1-KirBac1.3 Chimera for Structural Study Optimization. Biomolecules, 2020, 10, 430. | 4.0 | 11 |
| 51 | Î²â€Cyclodextrin Encapsulation of Synthetic AHLs: Drug Delivery Implications and Quorumâ€Quenching Exploits. ChemBioChem, 2021, 22, 1292-1301. | 2.6 | 9 |
| 52 | Origins of Chemical Evolution. Accounts of Chemical Research, 2012, 45, 2023-2024. | 15.6 | 8 |
| 53 | Electrostatic Complementarity Drives Amyloid/Nucleic Acid Coâ€Assembly. Angewandte Chemie, 2020, 132, 366-371. | 2.0 | 8 |
| 54 | Mobilization of Iron Stored in Bacterioferritin Is Required for Metabolic Homeostasis in Pseudomonas aeruginosa. Pathogens, 2020, 9, 980. | 2.8 | 8 |

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|---|---|---|---|
| 55 | Liquidâ€Like Phases Preorder Peptides for Supramolecular Assembly. ChemSystemsChem, 2020, 2, e2000007. | 2.6 | 5 |
| 56 | Imaging Nucleation, Growth and Heterogeneity in Self-Assembled Amyloid Phases. , 2014, , 27-36. | | 4 |
| 57 | Structural heterogeneities of self-assembled peptide nanomaterials. , 2012, , . | | 2 |
| 58 | NMR Crystallography: Evaluation of Hydrogen Positions in Hydromagnesite by 13 C{ 1 H} REDOR Solidâ€State NMR and Density Functional Theory Calculation of Chemical Shielding Tensors. Angewandte Chemie, 2019, 131, 4254-4260. | 2.0 | 2 |
| 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 |