

# Rahul L Khade

## List of Publications by Year in descending order

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Version: 2024-02-01

25  
papers

575  
citations

623699

14  
h-index

610883

24  
g-index

27  
all docs

27  
docs citations

27  
times ranked

888  
citing authors

#	ARTICLE	IF	CITATIONS
1	Stepwise nitrosylation of the nonheme iron site in an engineered azurin and a molecular basis for nitric oxide signaling mediated by nonheme iron proteins. <i>Chemical Science</i> , 2021, 12, 6569-6579.	7.4	2
2	Insight into the preferential N-binding versus O-binding of nitrosoarenes to ferrous and ferric heme centers. <i>Dalton Transactions</i> , 2021, 50, 3487-3498.	3.3	3
3	Insights into the Observed <i>trans</i> -Bond Length Variations upon NO Binding to Ferric and Ferrous Porphyrins with Neutral Axial Ligands. <i>ACS Omega</i> , 2021, 6, 24777-24787.	3.5	2
4	Not Limited to Iron: A Cobalt Heme-NO Model Facilitates N-N Coupling with External NO in the Presence of a Lewis Acid to Generate N <sub>2</sub> O. <i>Angewandte Chemie</i> , 2019, 131, 18771-18776.	2.0	1
5	Not Limited to Iron: A Cobalt Heme-NO Model Facilitates N-N Coupling with External NO in the Presence of a Lewis Acid to Generate N <sub>2</sub> O. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 18598-18603.	13.8	9
6	Biocatalytic Strategy for Highly Diastereo- and Enantioselective Synthesis of 2,3-Dihydrobenzofuran-Based Tricyclic Scaffolds. <i>Angewandte Chemie</i> , 2019, 131, 10254-10258.	2.0	7
7	Mechanistic Investigation of Biocatalytic Heme Carbenoid C-H Insertions. <i>ChemCatChem</i> , 2019, 11, 3101-3108.	3.7	20
8	Biocatalytic Strategy for Highly Diastereo- and Enantioselective Synthesis of 2,3-Dihydrobenzofuran-Based Tricyclic Scaffolds. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 10148-10152.	13.8	57
9	Synthesis, Characterization, and Theoretical Investigation of a Transition State Analogue for Proton Transfer during C-H Activation by a Rhodium-Pincer Complex. <i>Organometallics</i> , 2019, 38, 1407-1412.	2.3	11
10	Lewis Acid Activation of the Ferrous Heme-NO Fragment toward the N-N Coupling Reaction with NO To Generate N <sub>2</sub> O. <i>Journal of the American Chemical Society</i> , 2018, 140, 4204-4207.	13.7	29
11	Catalytic Role of Conserved Asparagine, Glutamine, Serine, and Tyrosine Residues in Isoprenoid Biosynthesis Enzymes. <i>ACS Catalysis</i> , 2018, 8, 4299-4312.	11.2	19
12	Bisphosphonate-Generated ATP-Analogs Inhibit Cell Signaling Pathways. <i>Journal of the American Chemical Society</i> , 2018, 140, 7568-7578.	13.7	27
13	C-H Insertions by Iron Porphyrin Carbene: Basic Mechanism and Origin of Substrate Selectivity. <i>Chemistry - A European Journal</i> , 2017, 23, 17654-17658.	3.3	29
14	Frontispiece: C-H Insertions by Iron Porphyrin Carbene: Basic Mechanism and Origin of Substrate Selectivity. <i>Chemistry - A European Journal</i> , 2017, 23, .	3.3	0
15	HNO Binding in Heme Proteins: Effects of Iron Oxidation State, Axial Ligand, and Protein Environment. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 15058-15061.	13.8	16
16	HNO Binding in Heme Proteins: Effects of Iron Oxidation State, Axial Ligand, and Protein Environment. <i>Angewandte Chemie</i> , 2016, 128, 15282-15285.	2.0	7
17	Hydride Attack on a Coordinated Ferric Nitrosyl: Experimental and DFT Evidence for the Formation of a Heme Model-HNO Derivative. <i>Journal of the American Chemical Society</i> , 2016, 138, 104-107.	13.7	51
18	Solid-State <sup>17</sup> O NMR Spectroscopy of Paramagnetic Coordination Compounds. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 4753-4757.	13.8	44

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19	Catalytic and Biocatalytic Iron Porphyrin Carbene Formation: Effects of Binding Mode, Carbene Substituent, Porphyrin Substituent, and Protein Axial Ligand. <i>Journal of the American Chemical Society</i> , 2015, 137, 7560-7563.	13.7	78
20	A Distonic Radical-Ion for Detection of Traces of Adventitious Molecular Oxygen ( $O_2$ ) in Collision Gases Used in Tandem Mass Spectrometers. <i>Journal of the American Society for Mass Spectrometry</i> , 2014, 25, 1670-1673.	2.8	4
21	Iron Porphyrin Carbenes as Catalytic Intermediates: Structures, Mössbauer and NMR Spectroscopic Properties, and Bonding. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 7574-7578.	13.8	59
22	Isoprenoid Biosynthesis: Ferraooxetane or Allyl Anion Mechanism for IspH Catalysis?. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 6522-6525.	13.8	17
23	Isoprenoid Biosynthesis: Ferraooxetane or Allyl Anion Mechanism for IspH Catalysis?. <i>Angewandte Chemie</i> , 2013, 125, 6650-6653.	2.0	4
24	Structural, EPR Superhyperfine, and NMR Hyperfine Properties of the Cu <sup>2+</sup> Octarepeat Binding Site in the Prion Protein. <i>Journal of Physical Chemistry B</i> , 2011, 115, 2663-2670.	2.6	8
25	Inhibition of A $\beta$ 242 Peptide Aggregation by a Binuclear Ruthenium(II)-Platinum(II) Complex: Potential for Multimetal Organometallics as Anti-amyloid Agents. <i>ACS Chemical Neuroscience</i> , 2010, 1, 691-701.	3.5	54