

# Gurunath Ramanathan

## List of Publications by Year in descending order

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51  
papers

1,149  
citations

471371

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395590

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56  
all docs

56  
docs citations

56  
times ranked

1221  
citing authors

#	ARTICLE	IF	CITATIONS
1	Comparison of CryoEM and X-ray structures of dimethylformamidase. Progress in Biophysics and Molecular Biology, 2021, 160, 66-78.	1.4	3
2	A 2-tyrosyl-L-glutamate Mononuclear Iron Center Forms the Active Site of a <i>Paracoccus</i> Dimethylformamidase. Angewandte Chemie - International Edition, 2020, 59, 16961-16966.	7.2	14
3	A 2-tyrosyl-L-glutamate Mononuclear Iron Center Forms the Active Site of a <i>Paracoccus</i> Dimethylformamidase. Angewandte Chemie, 2020, 132, 17109-17114.	1.6	0
4	New self-assembled archetypes in crown ether substituted $\Delta^{\text{Z}}\text{hbox}\{\text{Phe}\}$ containing tripeptides. Journal of Chemical Sciences, 2019, 131, 1.	0.7	0
5	Synchronized Electromechanical Shock Wave-Induced Bacterial Transformation. ACS Omega, 2019, 4, 8512-8521.	1.6	7
6	Dielectrophoresis assisted impedance spectroscopy for detection of gold-conjugated amplified DNA samples. Sensors and Actuators B: Chemical, 2019, 288, 442-453.	4.0	19
7	Tuning Thin Film Properties by Structural Modulations in Red Fluorescent Protein Chromophore Analogues. ChemistrySelect, 2019, 4, 13320-13326.	0.7	1
8	Protonation of the imino nitrogen deactivates the excited state of imidazolin-5-one in the solid state. Journal of Chemical Sciences, 2018, 130, 1.	0.7	1
9	Crystallographic studies on complexes of potassium iodide and copper perchlorate with N, N <sup>1</sup> -dicyclohexylurea tethered to a benzo-12-crown-4. Journal of Molecular Structure, 2018, 1156, 273-279.	1.8	3
10	Crosslinking of agar by diisocyanates. Carbohydrate Polymers, 2018, 202, 454-460.	5.1	21
11	A self-assembled tetrapeptide that acts as a turn-on fluorescent sensor for Hg <sup>2+</sup> ion. Tetrahedron Letters, 2018, 59, 3653-3656.	0.7	5
12	Mercuric Ion Sensing by an Overlapping Turn Containing Peptide. ChemistrySelect, 2017, 2, 8072-8075.	0.7	0
13	Red fluorescence protein chromophore inspired selective optical chemosensor for Cu <sup>2+</sup> and Hg <sup>2+</sup> metal ions. Journal of Luminescence, 2017, 182, 220-225.	1.5	17
14	Structural and functional studies of ferredoxin and oxygenase components of 3-nitrotoluene dioxygenase from <i>Diaphorobacter</i> sp. strain DS2. PLoS ONE, 2017, 12, e0176398.	1.1	17
15	Structure of 3-nitrotoluene dioxygenase from <i>Diaphorobacter</i> sp. strain DS2. Acta Crystallographica Section A: Foundations and Advances, 2017, 73, C1280-C1280.	0.0	0
16	Rational Design of Heterogeneous Silver Catalysts by Exploitation of Counteranion-Induced Coordination Geometry. Asian Journal of Organic Chemistry, 2016, 5, 865-869.	1.3	4
17	N-H...N hydrogen bonds in Boc-DOPA-OMe. Chemical Physics Letters, 2016, 653, 117-121.	1.2	6
18	A 12-Crown-4 Ether Containing Dipeptide Boc-12-Crown-4-l-DOPA-Gly-OMe Induces Cell Cycle Arrest and Apoptosis in Rat Eggs Cultured In Vitro. International Journal of Peptide Research and Therapeutics, 2016, 22, 57-66.	0.9	1

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19	Effect of methylene group insertions on the structural rigidity of Aib containing helices. Biopolymers, 2015, 104, 720-732.	1.2	0
20	Structures and conformation of a benzo-12-crown-4 containing dipeptide. Biopolymers, 2015, 104, 148-155.	1.2	3
21	Structures, stability and hydrogen bonding in inositol conformers. Physical Chemistry Chemical Physics, 2015, 17, 18514-18523.	1.3	13
22	Introduction of an electron push-pull system yields a planar Red Kaede fluorescence protein chromophore analogue stabilized by a C = O...N interaction. Journal of Chemical Sciences, 2015, 127, 941-948.	0.7	10
23	Tuning of intermolecular interactions results in packing diversity in imidazolin-5-ones. Journal of Chemical Sciences, 2014, 126, 1275-1284.	0.7	9
24	3-Nitrotoluene dioxygenase from Diaphorobacter sp. strains: cloning, sequencing and evolutionary studies. Biodegradation, 2014, 25, 479-492.	1.5	20
25	Expression, purification and substrate specificities of 3-nitrotoluene dioxygenase from Diaphorobacter sp. strain DS2. Biochemical and Biophysical Research Communications, 2014, 445, 36-42.	1.0	12
26	Biomining of 3-nitrotoluene by Diaphorobacter species. Biodegradation, 2013, 24, 645-655.	1.5	38
27	CYCLIC BETA-AMINO ACIDS AS CONFORMATIONAL CONSTRAINTS. , 2013, , 282-295.		1
28	Integrated sorting, concentration and real time PCR based detection system for sensitive detection of microorganisms. Scientific Reports, 2013, 3, 3266.	1.6	25
29	Segregation into Chiral Enantiomeric Conformations of an Achiral Molecule by Concomitant Polymorphism. Crystal Growth and Design, 2012, 12, 1823-1829.	1.4	12
30	Excited State Relaxation Dynamics of Model Green Fluorescent Protein Chromophore Analogs: Evidence for Cis-Trans Isomerism. Journal of Physical Chemistry A, 2011, 115, 13733-13742.	1.1	58
31	A Change in the 3 <sub>10</sub> - to $\pm$ -Helical Transition Point in the Heptapeptides Containing Sulfur and Selenium. Crystal Growth and Design, 2011, 11, 2238-2242.	1.4	3
32	A synthetic ditryptophan conjugate that rescues bacteria from mercury toxicity through complexation. Tetrahedron Letters, 2010, 51, 6111-6115.	0.7	8
33	Twisted intramolecular charge transfer in a model green fluorescent protein luminophore analog. Chemical Physics Letters, 2010, 494, 295-300.	1.2	16
34	Biomining of N,N-dimethylformamide by Paracoccus sp. strain DMF. Journal of Hazardous Materials, 2009, 171, 268-272.	6.5	63
35	Dominant N...N interaction in the self assemblies of 4-benzylidene imidazolin-5-one analogues. Journal of Chemical Sciences, 2009, 121, 973-982.	0.7	13
36	Photovoltaic effect in single-layer organic solar cell devices fabricated with two new imidazolin-5-one molecules. Solar Energy Materials and Solar Cells, 2008, 92, 1043-1046.	3.0	20

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37	Degradation Study of Organic Semiconductor Devices Under Electrical and Optical Stresses. IEEE Electron Device Letters, 2008, 29, 442-444.	2.2	4
38	Mineralization of 4-aminobenzenesulfonate (4-ABS) by Agrobacterium sp. strain PNS-1. Biodegradation, 2006, 17, 495-502.	1.5	19
39	Solvent free Lewis acid catalyzed vinylogous condensation. Arkivoc, 2006, 2006, 152-161.	0.3	14
40	Câ€“Hâ€“O interactions are favoured in the crystal structures of imidazolin-5-ones. Journal of Molecular Structure, 2005, 752, 98-103.	1.8	14
41	Transient Accumulation of Metabolic Intermediates of p-Cresol in the Culture Medium by a Pseudomonas sp. Strain A Isolated from a Sewage Treatment Plant. World Journal of Microbiology and Biotechnology, 2005, 21, 1529-1534.	1.7	4
42	Short Cî€“C intermolecular contacts for molecular assembly. CrystEngComm, 2004, 6, 233-235.	1.3	15
43	Truncated thioredoxin (Trx80) exerts unique mitogenic cytokine effects via a mechanism independent of thiol oxido-reductase activity. FEBS Letters, 2003, 539, 143-148.	1.3	37
44	Truncated thioredoxin (Trx80) induces production of interleukin-12 and enhances CD14 expression in human monocytes. Blood, 2001, 97, 3184-3190.	0.6	69
45	Truncated Thioredoxin Is a Mitogenic Cytokine for Resting Human Peripheral Blood Mononuclear Cells and Is Present in Human Plasma. Journal of Biological Chemistry, 2000, 275, 37474-37480.	1.6	95
46	Thioredoxin, a Redox Enzyme Released in Infection and Inflammation, Is a Unique Chemoattractant for Neutrophils, Monocytes, and T Cells. Journal of Experimental Medicine, 1999, 189, 1783-1789.	4.2	303
47	Observation of a mixed antiparallel and parallel Î²â€“sheet motif in the crystal structure of Bocâ€“Alaâ€“Ileâ€“Aibâ€“OMe. International Journal of Peptide and Protein Research, 1996, 48, 209-214.	0.1	1
48	Peptide design. Structural evaluation of potential nonhelical segments attached to helical modules.. Journal of the American Chemical Society, 1995, 117, 9632-9637.	6.6	38
49	Enhancing peptide antigenicity by helix stabilization. FEBS Letters, 1995, 361, 176-178.	1.3	16
50	Facile transition between 3<sub>10</sub>- and Î±-helix: Structures of 8â€“, 9â€“, and 10â€“residue peptides containing the â€“(Leuâ€“Aibâ€“Ala)<sub>2</sub>-â€“Pheâ€“Aibâ€“fragment. Protein Science, 1994, 3, 1547-1555.	3.1	61
51	Incorporation of a Potentially Helix-Breaking D-Phe-Pro Sequence into the Center of a Right-Handed 16-Residue Peptide Helix. Biochemical and Biophysical Research Communications, 1994, 202, 241-245.	1.0	15