

Gurusamy Balakrishnan

List of Publications by Year in descending order

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43
papers

1,419
citations

361413

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docs citations

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times ranked

1708
citing authors

#	ARTICLE	IF	CITATIONS
1	An Interlaboratory Comparison on the Characterization of a Sub-micrometer Polydisperse Particle Dispersion. <i>Journal of Pharmaceutical Sciences</i> , 2022, 111, 699-709.	3.3	6
2	A Detailed Protocol for Generation of Therapeutic Antibodies with Galactosylated Glycovariants at Laboratory Scale Using In-Vitro Glycoengineering Technology. <i>Journal of Pharmaceutical Sciences</i> , 2021, 110, 935-945.	3.3	1
3	Bridging size and charge variants of a therapeutic monoclonal antibody by two-dimensional liquid chromatography. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2020, 183, 113178.	2.8	10
4	Computational Studies of Catalytic Loop Dynamics in <i>Yersinia</i> Protein Tyrosine Phosphatase Using Pathway Optimization Methods. <i>Journal of Physical Chemistry B</i> , 2019, 123, 7840-7851.	2.6	4
5	Biogenic and Synthetic MnO ₂ Nanoparticles: Size and Growth Probed with Absorption and Raman Spectroscopies and Dynamic Light Scattering. <i>Environmental Science & Technology</i> , 2019, 53, 4185-4197.	10.0	63
6	Quadrupole Dalton-Based Controlled Proteolysis Method for Characterization of Higher Order Protein Structure. <i>Analytical Chemistry</i> , 2019, 91, 5339-5345.	6.5	6
7	Probing the Tryptophan Environment in Therapeutic Proteins: Implications for Higher Order Structure on Tryptophan Oxidation. <i>Journal of Pharmaceutical Sciences</i> , 2019, 108, 1944-1952.	3.3	20
8	Enhanced Precision of Circular Dichroism Spectral Measurements Permits Detection of Subtle Higher Order Structural Changes in Therapeutic Proteins. <i>Journal of Pharmaceutical Sciences</i> , 2018, 107, 2559-2569.	3.3	15
9	Detection and Identification of the Vibrational Markers for the Quantification of Methionine Oxidation in Therapeutic Proteins. <i>Analytical Chemistry</i> , 2018, 90, 6959-6966.	6.5	19
10	Understanding the vibrational mode-specific polarization effects in femtosecond Raman-induced Kerr-effect spectroscopy. <i>Optics Letters</i> , 2016, 41, 5357.	3.3	2
11	Temperature-Jump Fluorescence Provides Evidence for Fully Reversible Microsecond Dynamics in a Thermophilic Alcohol Dehydrogenase. <i>Journal of the American Chemical Society</i> , 2015, 137, 10060-10063.	13.7	19
12	Ultrafast Charge Transfer in Nickel Phthalocyanine Probed by Femtosecond Raman-Induced Kerr Effect Spectroscopy. <i>Journal of the American Chemical Society</i> , 2014, 136, 8746-8754.	13.7	23
13	Distinguishing unfolding and functional conformational transitions of calmodulin using ultraviolet resonance Raman spectroscopy. <i>Protein Science</i> , 2014, 23, 1094-1101.	7.6	6
14	Differential Control of Heme Reactivity in Alpha and Beta Subunits of Hemoglobin: A Combined Raman Spectroscopic and Computational Study. <i>Journal of the American Chemical Society</i> , 2014, 136, 10325-10339.	13.7	34
15	CO, NO and O ₂ as vibrational probes of heme protein interactions. <i>Coordination Chemistry Reviews</i> , 2013, 257, 511-527.	18.8	128
16	Ultraviolet Resonance Raman (UVRR) Spectroscopy Studies of Structure and Dynamics of Proteins. , 2013, , 2697-2707.		2
17	His26 Protonation in Cytochrome c Triggers Microsecond β -Sheet Formation and Heme Exposure: Implications for Apoptosis. <i>Journal of the American Chemical Society</i> , 2012, 134, 19061-19069.	13.7	38
18	Mode Recognition in UV Resonance Raman Spectra of Imidazole: Histidine Monitoring in Proteins. <i>Journal of Physical Chemistry B</i> , 2012, 116, 9387-9395.	2.6	15

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19	Heme Reactivity is Uncoupled from Quaternary Structure in Gel-Encapsulated Hemoglobin: A Resonance Raman Spectroscopic Study. <i>Journal of the American Chemical Society</i> , 2012, 134, 3461-3471.	13.7	26
20	Early Steps in Cytochrome C Unfolding Probed by Nanosecond Laser Induced T-jump UV Resonance Raman Spectroscopy. , 2010, , .		0
21	Linking conformation change to hemoglobin activation via chain-selective time-resolved resonance Raman spectroscopy of protoheme/mesoeme hybrids. <i>Journal of Biological Inorganic Chemistry</i> , 2009, 14, 741-750.	2.6	13
22	Subunit-Selective Interrogation of CO Recombination in Carbonmonoxy Hemoglobin by Isotope-Edited Time-Resolved Resonance Raman Spectroscopy. <i>Biochemistry</i> , 2009, 48, 3120-3126.	2.5	10
23	MCR-ALS analysis of two-way UV resonance Raman spectra to resolve discrete protein secondary structural motifs. <i>Analyst</i> , The, 2009, 134, 138-147.	3.5	24
24	Cu(I) recognition via cation-π and methionine interactions in CusF. <i>Nature Chemical Biology</i> , 2008, 4, 107-109.	8.0	220
25	Protein dynamics from time resolved UV Raman spectroscopy. <i>Current Opinion in Structural Biology</i> , 2008, 18, 623-629.	5.7	68
26	A Conformational Switch to β ² -Sheet Structure in Cytochrome c Leads to Heme Exposure. Implications for Cardiolipin Peroxidation and Apoptosis. <i>Journal of the American Chemical Society</i> , 2007, 129, 504-505.	13.7	59
27	Enthalpic and Entropic Stages in β ¹ -Helical Peptide Unfolding, from Laser-T-Jump/UV Raman Spectroscopy. <i>Journal of the American Chemical Society</i> , 2007, 129, 12801-12808.	13.7	33
28	Microsecond Melting of a Folding Intermediate in a Coiled-Coil Peptide, Monitored by T-jump/UV Raman Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2006, 110, 19877-19883.	2.6	24
29	Temperature-Jump Apparatus with Raman Detection Based on a Solid-State Tunable (1.80–2.05 THz) kHz Optical Parametric Oscillator Laser. <i>Applied Spectroscopy</i> , 2006, 60, 347-351.	2.2	19
30	Dynamics of Allostery in Hemoglobin: Roles of the Penultimate Tyrosine H bonds. <i>Journal of Molecular Biology</i> , 2006, 356, 335-353.	4.2	37
31	Protein secondary structure from deep-UV resonance Raman spectroscopy. <i>Journal of Raman Spectroscopy</i> , 2006, 37, 277-282.	2.5	125
32	Tunable kHz Deep Ultraviolet (193–210 nm) Laser for Raman Applications. <i>Applied Spectroscopy</i> , 2005, 59, 776-781.	2.2	53
33	Dynamics of Carbon Monoxide Binding to CooA. <i>Journal of Biological Chemistry</i> , 2004, 279, 21096-21108.	3.4	62
34	Time-Resolved Resonance Raman Study of HbA with 220 nm Excitation: Probing Phenylalanine. <i>Journal of Physical Chemistry B</i> , 2004, 108, 15919-15927.	2.6	9
35	Time-resolved Absorption and UV Resonance Raman Spectra Reveal Stepwise Formation of T Quaternary Contacts in the Allosteric Pathway of Hemoglobin. <i>Journal of Molecular Biology</i> , 2004, 340, 843-856.	4.2	74
36	Hemoglobin Site-mutants Reveal Dynamical Role of Interhelical H-bonds in the Allosteric Pathway: Time-resolved UV Resonance Raman Evidence for Intra-dimer Coupling. <i>Journal of Molecular Biology</i> , 2004, 340, 857-868.	4.2	41

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37	Histidine Photodegradation during UV Resonance Raman Spectroscopy. Journal of Physical Chemistry A, 2003, 107, 8047-8051.	2.5	22
38	Electron Delocalization in the Radical Cation of 1,3,6,8-Tetraazatricyclo[4.4.1.1 ^{3,8}]dodecane, a 4-Nitrogen-7-Electron System. Journal of the American Chemical Society, 2002, 124, 159-167.	13.7	20
39	Kinetics of hemoglobin allostery from time-resolved UV resonance Raman spectroscopy: effect of a chemical cross-link. Journal of Raman Spectroscopy, 2000, 31, 349-352.	2.5	7
40	Evidence of Dynamical Jahn-Teller Effect on Triphenylene Radical Cation: Resonance Raman Spectrum and ab Initio Quantum-Chemical Calculations. Journal of Physical Chemistry A, 2000, 104, 9121-9129.	2.5	19
41	The Radical Cation and Lowest Rydberg States of 1,4-Diaza[2.2.2]bicyclooctane (DABCO). Journal of Physical Chemistry A, 2000, 104, 1834-1841.	2.5	25
42	Radical Cation of 2,5-Dimethyl-2,4-hexadiene: Resonance Raman Spectrum and Molecular Orbital Calculations. Journal of Physical Chemistry A, 1999, 103, 10798-10804.	2.5	2
43	Time-resolved resonance Raman spectroscopic studies on the triplet excited state of fluoranil. Journal of the Chemical Society, Faraday Transactions, 1997, 93, 4125-4130.	1.7	12