# Giulietta Smulevich

List of Publications by Year
in descending order

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|---|---|---|---|
| 182 papers | 6,123 citations | 57758 44 h-index | 102487 66 g-index |
| 185 all docs | 185 docs citations | 185 times ranked | 4064 citing authors |

| # | Article | IF | Citations |
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| 1 | Substrate specificity and complex stability of coproporphyrin ferrochelatase is governed by hydrogenâ€bonding interactions of the four propionate groups. FEBS Journal, 2022, 289, 1680-1699. | 4.7 | 13 |
| 2 | An active site at work â€“ the role of key residues in C. diphteriae coproheme decarboxylase. Journal of Inorganic Biochemistry, 2022, 229, 111718. | 3.5 | 9 |
| 3 | Mycobacterial and Human Ferrous Nitrobindins: Spectroscopic and Reactivity Properties. International Journal of Molecular Sciences, 2021, 22, 1674. | 4.1 | 10 |
| 4 | Surface-Enhanced Raman Spectroscopy for Bisphenols Detection: Toward a Better Understanding of the Analyteâ€“Nanosystem Interactions. Nanomaterials, 2021, 11, 881. | 4.1 | 14 |
| 5 | Detecting rotational disorder in heme proteins: A comparison between resonance Raman spectroscopy, nuclear magnetic resonance, and circular dichroism. Journal of Raman Spectroscopy, 2021, 52, 2536-2549. | 2.5 | 4 |
| 6 | Reaction intermediate rotation during the decarboxylation of coproheme to heme b in C.Âdiphtheriae. Biophysical Journal, 2021, 120, 3600-3614. | 0.5 | 12 |
| 7 | Conformational Flexibility Drives Cold Adaptation in Pseudoalteromonas haloplanktis TAC125 Globins. Antioxidants and Redox Signaling, 2020, 32, 396-411. | 5.4 | 6 |
| 8 | A Plant Gene Encoding One-Heme and Two-Heme Hemoglobins With Extreme Reactivities Toward Diatomic Gases and Nitrite. Frontiers in Plant Science, 2020, 11, 600336. | 3.6 | 8 |
| 9 | Lack of orientation selectivity of the heme insertion in murine neuroglobin revealed by resonance Raman spectroscopy. FEBS Journal, 2020, 287, 4082-4097. | 4.7 | 13 |
| 10 | Surface-enhanced Raman scattering of glyphosate on dispersed silver nanoparticles: A reinterpretation based on model molecules. Vibrational Spectroscopy, 2020, 108, 103061. | 2.2 | 14 |
| 11 | Mycobacterial and Human Nitrobindins: Structure and Function. Antioxidants and Redox Signaling, 2020, 33, 229-246. | 5.4 | 17 |
| 12 | Nanohybrid Assemblies of Porphyrin and Au10 Cluster Nanoparticles. Nanomaterials, 2019, 9, 1026. | 4.1 | 16 |
| 13 | Solution and crystal phase resonance Raman spectroscopy: Valuable tools to unveil the structure and function of heme proteins. Journal of Porphyrins and Phthalocyanines, 2019, 23, 691-700. | 0.8 | 5 |
| 14 | Addition of sodium ascorbate to extend the shelf-life of tuna meat fish: A risk or a benefit for consumers?. Journal of Inorganic Biochemistry, 2019, 200, 110813. | 3.5 | 12 |
| 15 | Surface Enhanced Raman Spectroscopy for In-Field Detection of Pesticides: A Test on Dimethoate Residues in Water and on Olive Leaves. Molecules, 2019, 24, 292. | 3.8 | 26 |
| 16 | Redox Cofactor Rotates during Its Stepwise Decarboxylation: Molecular Mechanism of Conversion of Coproheme to Heme b. ACS Catalysis, 2019, 9, 6766-6782. | 11.2 | 28 |
| 17 | The hydrogen bonding network of coproheme in coproheme decarboxylase from Listeria monocytogenes: Effect on structure and catalysis. Journal of Inorganic Biochemistry, 2019, 195, 61-70. | 3.5 | 19 |
| 18 | Proximal and distal control for ligand binding in neuroglobin: role of the CD loop and evidence for His64 gating. Scientific Reports, 2019, 9, 5326. | 3.3 | 10 |

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| 19 | Structural determinants of ligand binding in truncated hemoglobins: Resonance Raman spectroscopy of the native states and their carbon monoxide and hydroxide complexes. Biopolymers, 2018, 109, e23114. | 2.4 | 5 |
| 20 | Probing the nonâ€native states of Cytochrome c with resonance Raman spectroscopy: A tool for investigating the structureâ€“function relationship. Journal of Raman Spectroscopy, 2018, 49, 1041-1055. | 2.5 | 19 |
| 21 | Coexistence of multiple globin genes conferring protection against nitrosative stress to the Antarctic bacterium Pseudoalteromonas haloplanktis TAC125. Nitric Oxide - Biology and Chemistry, 2018, 73, 39-51. | 2.7 | 11 |
| 22 | Insights into the Active Site of Coproheme Decarboxylase from Listeria monocytogenes. Biochemistry, 2018, 57, 2044-2057. | 2.5 | 28 |
| 23 | Surface Engineering of Gold Nanorods for Cytochrome c Bioconjugation: An Effective Strategy To Preserve the Protein Structure. ACS Omega, 2018, 3, 4959-4967. | 3.5 | 11 |
| 24 | The Met80Ala and Tyr67His/Met80Ala mutants of human cytochrome c shed light on the reciprocal role of Met80 and Tyr67 in regulating ligand access into the heme pocket. Journal of Inorganic Biochemistry, 2017, 169, 86-96. | 3.5 | 20 |
| 25 | Unravelling the Non-Native Low-Spin State of the Cytochrome câ€“Cardiolipin Complex: Evidence of the Formation of a His-Ligated Species Only. Biochemistry, 2017, 56, 1887-1898. | 2.5 | 29 |
| 26 | Molecular Mechanism of Enzymatic Chlorite Detoxification: Insights from Structural and Kinetic Studies. ACS Catalysis, 2017, 7, 7962-7976. | 11.2 | 26 |
| 27 | The key role played by charge in the interaction of cytochrome c with cardiolipin. Journal of Biological Inorganic Chemistry, 2017, 22, 19-29. | 2.6 | 40 |
| 28 | The Greenland shark Somniosus microcephalusâ€”Hemoglobins and ligand-binding properties. PLoS ONE, 2017, 12, e0186181. | 2.5 | 27 |
| 29 | Structureâ€“function relationships in human cytochrome c: The role of tyrosine 67. Journal of Inorganic Biochemistry, 2016, 155, 56-66. | 3.5 | 31 |
| 30 | From chlorite dismutase towards HemQâ€“the role of the proximal H-bonding network in haeme binding. Bioscience Reports, 2016, 36, . | 2.4 | 22 |
| 31 | Hydrogen peroxideâ€mediated conversion of coproheme to heme b by HemQâ€”lessons from the first crystal structure and kinetic studies. FEBS Journal, 2016, 283, 4386-4401. | 4.7 | 36 |
| 32 | Structural flexibility of the heme cavity in the coldâ€adapted truncated hemoglobin from the Antarctic marine bacterium PseudoalteromonasÂhaloplanktis <scp>TAC</scp>125. FEBS Journal, 2015, 282, 2948-2965. | 4.7 | 24 |
| 33 | Functional and Spectroscopic Characterization of Chlamydomonas reinhardtii Truncated Hemoglobins. PLoS ONE, 2015, 10, e0125005. | 2.5 | 13 |
| 34 | Bridging Theory and Experiment to Address Structural Properties of Truncated Haemoglobins. Advances in Microbial Physiology, 2015, 67, 85-126. | 2.4 | 4 |
| 35 | Nitrite Dismutase Reaction Mechanism: Kinetic and Spectroscopic Investigation of the Interaction between Nitrophorin and Nitrite. Journal of the American Chemical Society, 2015, 137, 4141-4150. | 13.7 | 22 |
| 36 | Reactivity of Inorganic Sulfide Species toward a Heme Protein Model. Inorganic Chemistry, 2015, 54, 527-533. | 4.0 | 36 |

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| 37 | Anatomy of an iron-sulfur cluster scaffold protein: Understanding the determinants of [2Feâ€“2S] cluster stability on IscU. Biochimica Et Biophysica Acta - Molecular Cell Research, 2015, 1853, 1448-1456. | 4.1 | 26 |
| 38 | Structural and Functional Properties of Heme-containing Peroxidases: a Resonance Raman Perspective for the Superfamily of Plant, Fungal and Bacterial Peroxidases. 2-Oxoglutarate-Dependent Oxygenases, 2015, , 61-98. | 0.8 | 6 |
| 39 | Oxygen-Linked S-Nitrosation in Fish Myoglobins: A Cysteine-Specific Tertiary Allosteric Effect. PLoS ONE, 2014, 9, e97012. | 2.5 | 8 |
| 40 | Interplay of the H-Bond Donorâ€“Acceptor Role of the Distal Residues in Hydroxyl Ligand Stabilization of Thermobifida fusca Truncated Hemoglobin. Biochemistry, 2014, 53, 8021-8030. | 2.5 | 15 |
| 41 | SERS detection of benzophenones on viologen functionalized Ag nanoparticles: application to breakfast cereals. Journal of Raman Spectroscopy, 2013, 44, 1428-1434. | 2.5 | 8 |
| 42 | A spectrophotometric method for the detection of carboxymyoglobin in beef drip. International Journal of Food Science and Technology, 2013, 48, 429-436. | 2.7 | 3 |
| 43 | H-bonding networks of the distal residues and water molecules in the active site of Thermobifida fusca hemoglobin. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2013, 1834, 1901-1909. | 2.3 | 21 |
| 44 | Small ligandâ€“globin interactions: Reviewing lessons derived from computer simulation. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2013, 1834, 1722-1738. | 2.3 | 37 |
| 45 | Role of Lysines in Cytochrome câ€“Cardiolipin Interaction. Biochemistry, 2013, 52, 4578-4588. | 2.5 | 83 |
| 46 | Reciprocal Allosteric Modulation of Carbon Monoxide and Warfarin Binding to Ferrous Human Serum Heme-Albumin. PLoS ONE, 2013, 8, e58842. | 2.5 | 15 |
| 47 | ATP regulation of the ligand-binding properties in temperate and cold-adapted haemoglobins. X-ray structure and ligand-binding kinetics in the sub-Antarctic fish Eleginops maclovinus. Molecular BioSystems, 2012, 8, 3295. | 2.9 | 12 |
| 48 | Eukaryotic extracellular catalaseâ€“peroxidase from Magnaporthe grisea â€“ Biophysical/chemical characterization of the first representative from a novel phytopathogenic KatG group. Biochimie, 2012, 94, 673-683. | 2.6 | 26 |
| 49 | Insights into the anomalous heme pocket of rainbow trout myoglobin. Journal of Inorganic Biochemistry, 2012, 109, 1-8. | 3.5 | 12 |
| 50 | Evidence for pH-dependent multiple conformers in iron(II) hemeâ€“human serum albumin: spectroscopic and kinetic investigation of carbon monoxide binding. Journal of Biological Inorganic Chemistry, 2012, 17, 133-147. | 2.6 | 13 |
| 51 | Biophysical Characterisation of Neuroglobin of the Icefish, a Natural Knockout for Hemoglobin and Myoglobin. Comparison with Human Neuroglobin. PLoS ONE, 2012, 7, e44508. | 2.5 | 28 |
| 52 | Fluoride as a Probe for H-Bonding Interactions in the Active Site of Heme Proteins: The Case of Thermobifida fusca Hemoglobin. Journal of the American Chemical Society, 2011, 133, 20970-20980. | 13.7 | 29 |
| 53 | Histidine E7 Dynamics Modulates Ligand Exchange between Distal Pocket and Solvent in AHb1 from Arabidopsis thaliana. Journal of Physical Chemistry B, 2011, 115, 4138-4146. | 2.6 | 20 |
| 54 | The Role of CyaY in Iron Sulfur Cluster Assembly on the E. coli IscU Scaffold Protein. PLoS ONE, 2011, 6, e21992. | 2.5 | 46 |

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| 55 | Ibuprofen impairs allosterically peroxynitrite isomerization by ferric human serum heme-albumin.. Journal of Biological Chemistry, 2011, 286, 29441. | 3.4 | 0 |
| 56 | The optical spectra of fluoride complexes can effectively probe H-bonding interactions in the distal cavity of heme proteins. Journal of Inorganic Biochemistry, 2011, 105, 1338-1343. | 3.5 | 23 |
| 57 | The effects of ATP and sodium chloride on the cytochrome câ€“cardiolipin interaction: The contrasting behavior of the horse heart and yeast proteins. Journal of Inorganic Biochemistry, 2011, 105, 1365-1372. | 3.5 | 27 |
| 58 | The peculiar heme pocket of the 2/2 hemoglobin of cold-adapted Pseudoalteromonas haloplanktis TAC125. Journal of Biological Inorganic Chemistry, 2011, 16, 299-311. | 2.6 | 21 |
| 59 | Degradation of sulfide by dehaloperoxidase-hemoglobin from Amphitrite ornata. Journal of Biological Inorganic Chemistry, 2011, 16, 611-619. | 2.6 | 17 |
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| 64 | High throughput headspace GCâ€MS quantitative method to measure the amount of carbon monoxide in treated tuna fish. Journal of Mass Spectrometry, 2010, 45, 1041-1045. | 1.6 | 13 |
| 65 | Crystallization, preliminary X-ray diffraction studies and Raman microscopy of the major haemoglobin from the sub-Antarctic fish Eleginops maclovinus in the carbomonoxy form. Acta Crystallographica Section F: Structural Biology Communications, 2010, 66, 1536-1540. | 0.7 | 9 |
| 66 | High Protein Structural Flexibility Of A Truncated Hemoglobin From An Antarctic Cold-Adapted Bacterium. , 2010, , . | | 0 |
| 67 | Heme Pocket Structural Properties of a Bacterial Truncated Hemoglobin from Thermobifida fusca. Biochemistry, 2010, 49, 10394-10402. | 2.5 | 25 |
| 68 | Internal Binding of Halogenated Phenols in Dehaloperoxidase-Hemoglobin Inhibits Peroxidase Function. Biophysical Journal, 2010, 99, 1586-1595. | 0.5 | 51 |
| 69 | New Insights into the Role of Distal Histidine Flexibility in Ligand Stabilization of Dehaloperoxidaseâ^'Hemoglobin from Amphitrite ornata. Biochemistry, 2010, 49, 1903-1912. | 2.5 | 39 |
| 70 | Sulfide Binding Properties of Truncated Hemoglobins. Biochemistry, 2010, 49, 2269-2278. | 2.5 | 63 |
| 71 | Ibuprofen Impairs Allosterically Peroxynitrite Isomerization by Ferric Human Serum Heme-Albumin. Journal of Biological Chemistry, 2009, 284, 31006-31017. | 3.4 | 40 |
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| 74 | Effects of urea and acetic acid on the heme axial ligation structure of ferric myoglobin at very acidic pH. Archives of Biochemistry and Biophysics, 2009, 489, 68-75. | 3.0 | 14 |
| 75 | Structural Plasticity and Functional Implications of Internal Cavities in Distal Mutants of Type 1 Non-Symbiotic Hemoglobin AHb1 fromArabidopsis thaliana. Journal of Physical Chemistry B, 2009, 113, 16028-16038. | 2.6 | 20 |
| 76 | The role of the sulfonium linkage in the stabilization of the ferrous form of myeloperoxidase: A comparison with lactoperoxidase. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2008, 1784, 843-849. | 2.3 | 17 |
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| 78 | Ibuprofen Induces an Allosteric Conformational Transition in the Heme Complex of Human Serum Albumin with Significant Effects on Heme Ligation. Journal of the American Chemical Society, 2008, 130, 11677-11688. | 13.7 | 98 |
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| 80 | Interactions between the Photosystem II Subunit PsbS and Xanthophylls Studied in Vivo and in Vitro. Journal of Biological Chemistry, 2008, 283, 8434-8445. | 3.4 | 125 |
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| 82 | Heme to protein linkages in mammalian peroxidases: impact on spectroscopic, redox and catalytic properties. Natural Product Reports, 2007, 24, 571-584. | 10.3 | 95 |
| 83 | A Comparative Study on Axial Coordination and Ligand Binding in Ferric Mini Myoglobin and Horse Heart Myoglobin. Biophysical Journal, 2007, 93, 2135-2142. | 0.5 | 11 |
| 84 | Multiphasic Kinetics of Myoglobin/Sodium Dodecyl Sulfate Complex Formation. Biophysical Journal, 2007, 92, 4078-4087. | 0.5 | 18 |
| 85 | The influence of pH and anions on the adsorption mechanism of rifampicin on silver colloids. Journal of Raman Spectroscopy, 2007, 38, 859-864. | 2.5 | 42 |
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| 87 | The quantum mechanically mixed-spin state in a non-symbiotic plant hemoglobin: The effect of distal mutation on AHb1 from Arabidopsis thaliana. Journal of Inorganic Biochemistry, 2007, 101, 1812-1819. | 3.5 | 6 |
| 88 | Heme Coordination States of Unfolded Ferrous Cytochrome c. Biophysical Journal, 2006, 91, 3022-3031. | 0.5 | 42 |
| 89 | Probing the structure and bifunctionality of catalase-peroxidase (KatG). Journal of Inorganic Biochemistry, 2006, 100, 568-585. | 3.5 | 92 |
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| 95 | Effect of solâ€“gel encapsulation on the unfolding of ferric horse heart cytochrome c. Journal of Biological Inorganic Chemistry, 2005, 10, 696-703. | 2.6 | 17 |
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| 97 | Fifteen Years of Raman Spectroscopy of Engineered Heme Containing Peroxidases:â€‰ What Have We Learned?. Accounts of Chemical Research, 2005, 38, 433-440. | 15.6 | 97 |
| 98 | ATP specifically drives refolding of non-native conformations of cytochrome c. Protein Science, 2005, 14, 1049-1058. | 7.6 | 47 |
| 99 | Electrochemistry of Unfolded Cytochromecin Neutral and Acidic Urea Solutions. Journal of the American Chemical Society, 2005, 127, 7638-7646. | 13.7 | 51 |
| 100 | The oxidation process of Antarctic fish hemoglobins. FEBS Journal, 2004, 271, 1651-1659. | 0.2 | 48 |
| 101 | The 40s ?-loop plays a critical role in the stability and the alkaline conformational transition of cytochrome c. Journal of Biological Inorganic Chemistry, 2004, 9, 997-1006. | 2.6 | 16 |
| 102 | Manipulating the covalent link between distal side tryptophan, tyrosine, and methionine in catalase-peroxidases: An electronic absorption and resonance Raman study. Biopolymers, 2004, 74, 46-50. | 2.4 | 16 |
| 103 | A model for the misfolded bis-His intermediate of cytochrome c: the 1â€“56 N-fragment. Journal of Inorganic Biochemistry, 2004, 98, 1067-1077. | 3.5 | 27 |
| 104 | The heme iron coordination of unfolded ferric and ferrous cytochrome c in neutral and acidic urea solutions. Spectroscopic and electrochemical studies. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2004, 1703, 31-41. | 2.3 | 49 |
| 105 | Comparison between Catalase-Peroxidase and Cytochrome c Peroxidase. The Role of the Hydrogen-Bond Networks for Protein Stability and Catalysis. Biochemistry, 2004, 43, 5792-5802. | 2.5 | 31 |
| 106 | Unusual Heme Iron-Lipid Acyl Chain Coordination in Escherichia coli Flavohemoglobin. Biophysical Journal, 2004, 86, 3882-3892. | 0.5 | 40 |
| 107 | Spectroscopic and Interfacial Properties of Myoglobin/Surfactant Complexes. Biophysical Journal, 2004, 87, 1186-1195. | 0.5 | 117 |
| 108 | Anion concentration modulates the conformation and stability of the molten globule of cytochrome c. Journal of Biological Inorganic Chemistry, 2003, 8, 663-670. | 2.6 | 31 |

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| 109 | Relationship between heme vinyl conformation and the protein matrix in peroxidases. Journal of Raman Spectroscopy, 2003, 34, 725-736. | 2.5 | 72 |
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| 112 | New Insight into the Peroxidaseâ^'Hydroxamic Acid Interaction Revealed by the Combination of Spectroscopic and Crystallographic Studies. Biochemistry, 2003, 42, 14066-14074. | 2.5 | 22 |
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| 117 | Structure of soybean seed coat peroxidase: A plant peroxidase with unusual stability and haem-apoprotein interactions. Protein Science, 2001, 10, 108-115. | 7.6 | 122 |
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| 119 | Cationic Ascorbate Peroxidase Isoenzyme II from Tea:Â Structural Insights into the Heme Pocket of a Unique Hybrid Peroxidaseâ€. Biochemistry, 2001, 40, 10360-10370. | 2.5 | 23 |
| 120 | Haem-linked interactions in horseradish peroxidase revealed by spectroscopic analysis of the Phe-221â†'Met mutant. Biochemical Journal, 2001, 353, 181-191. | 3.7 | 16 |
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| 123 | Mutation of residues critical for benzohydroxamic acid binding to horseradish peroxidase isoenzyme C. Biopolymers, 2001, 62, 261-267. | 2.4 | 10 |
| 124 | The Critical Role of the Proximal Calcium Ion in the Structural Properties of Horseradish Peroxidase. Journal of Biological Chemistry, 2001, 276, 40704-40711. | 3.4 | 63 |
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| 129 | Benzohydroxamic Acidâ˜Peroxidase Complexes:Â Spectroscopic Characterization of a Novel Heme Spin Species. Journal of the American Chemical Society, 2000, 122, 7368-7376. | 13.7 | 41 |
| 130 | The Quantum Mixed-Spin Heme State of Barley Peroxidase:A Paradigm for Class III Peroxidases. Biophysical Journal, 1999, 77, 478-492. | 0.5 | 76 |
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| 139 | Cooperative Mechanism in the Homodimeric Myoglobin fromNassamutabilisâ€. Biochemistry, 1998, 37, 2873-2878. | 2.5 | 9 |
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