

# Vincenzo Venditti

## List of Publications by Year in descending order

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36  
papers

652  
citations

623734

14  
h-index

610901

24  
g-index

37  
all docs

37  
docs citations

37  
times ranked

846  
citing authors

#	ARTICLE	IF	CITATIONS
1	Hydrogel-based transparent soils for root phenotyping in vivo. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 11063-11068.	7.1	58
2	Automated sequence- and stereo-specific assignment of methyl-labeled proteins by paramagnetic relaxation and methyl- <sup>13</sup> C methyl nuclear overhauser enhancement spectroscopy. Journal of Biomolecular NMR, 2011, 51, 319-328.	2.8	51
3	Structure, dynamics and biophysics of the cytoplasmic protein- <sup>13</sup> C protein complexes of the bacterial phosphoenolpyruvate: sugar phosphotransferase system. Trends in Biochemical Sciences, 2013, 38, 515-530.	7.5	51
4	Hybrid Approaches to Structural Characterization of Conformational Ensembles of Complex Macromolecular Systems Combining NMR Residual Dipolar Couplings and Solution X-ray Scattering. Chemical Reviews, 2016, 116, 6305-6322.	47.7	43
5	NMR Methods for Structural Characterization of Protein-Protein Complexes. Frontiers in Molecular Biosciences, 2020, 7, 9.	3.5	35
6	Large interdomain rearrangement triggered by suppression of micro- to millisecond dynamics in bacterial Enzyme I. Nature Communications, 2015, 6, 5960.	12.8	33
7	Mechanistic Insight into Nanoparticle Surface Adsorption by Solution NMR Spectroscopy in an Aqueous Gel. Angewandte Chemie - International Edition, 2017, 56, 9802-9806.	13.8	31
8	Automated NMR resonance assignments and structure determination using a minimal set of 4D spectra. Nature Communications, 2018, 9, 384.	12.8	31
9	Conformational Selection and Substrate Binding Regulate the Monomer/Dimer Equilibrium of the C-terminal domain of Escherichia coli Enzyme I. Journal of Biological Chemistry, 2012, 287, 26989-26998.	3.4	28
10	Dynamic equilibrium between closed and partially closed states of the bacterial Enzyme I unveiled by solution NMR and X-ray scattering. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 11565-11570.	7.1	28
11	Structural Basis for Enzyme I Inhibition by $\hat{\pm}$ -Ketoglutarate. ACS Chemical Biology, 2013, 8, 1232-1240.	3.4	26
12	Active Site Breathing of Human Alkbh5 Revealed by Solution NMR and Accelerated Molecular Dynamics. Biophysical Journal, 2018, 115, 1895-1905.	0.5	18
13	A NMR experiment for simultaneous correlations of valine and leucine/isoleucine methyls with carbonyl chemical shifts in proteins. Journal of Biomolecular NMR, 2014, 58, 1-8.	2.8	17
14	Hybrid Thermophilic/Mesophilic Enzymes Reveal a Role for Conformational Disorder in Regulation of Bacterial Enzyme I. Journal of Molecular Biology, 2020, 432, 4481-4498.	4.2	17
15	An efficient protocol for incorporation of an unnatural amino acid in perdeuterated recombinant proteins using glucose-based media. Journal of Biomolecular NMR, 2012, 52, 191-195.	2.8	15
16	Mechanistic Insight into Nanoparticle Surface Adsorption by Solution NMR Spectroscopy in an Aqueous Gel. Angewandte Chemie, 2017, 129, 9934-9938.	2.0	14
17	The oligomerization state of bacterial enzyme I (EI) determines EI's allosteric stimulation or competitive inhibition by $\hat{\pm}$ -ketoglutarate. Journal of Biological Chemistry, 2018, 293, 2631-2639.	3.4	13
18	Sustainable scalable synthesis of sulfide nanocrystals at low cost with an ionic liquid sulfur precursor. Nature Communications, 2018, 9, 4078.	12.8	13

#	ARTICLE	IF	CITATIONS
19	â€”Surface Contrastâ€”™ NMR Reveals Nonâ€”innocent Role of Support in Pd/CeO <sub>2</sub> Catalyzed Phenol Hydrogenation. <i>ChemCatChem</i> , 2020, 12, 4160-4166.	3.7	13
20	Weak binding to the A2RE RNA rigidifies hnRNPA2 RRM and reduces liquidâ€”liquid phase separation and aggregation. <i>Nucleic Acids Research</i> , 2020, 48, 10542-10554.	14.5	12
21	Structure elucidation of the elusive Enzyme I monomer reveals the molecular mechanisms linking oligomerization and enzymatic activity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	12
22	<i>N</i> <sup>6</sup> -methyladenosine binding induces a metal-centered rearrangement that activates the human RNA demethylase Alkbh5. <i>Science Advances</i> , 2021, 7, .	10.3	12
23	Substrateâ€”Support Interactions Mediate Hydrogenation of Phenolic Compounds by Pd/CeO <sub>2</sub> Nanorods. <i>ACS Applied Nano Materials</i> , 2020, 3, 11282-11288.	5.0	10
24	Non-Innocent Role of the Ceria Support in Pd-Catalyzed Halophenol Hydrodehalogenation. <i>ACS Catalysis</i> , 2021, 11, 10553-10564.	11.2	10
25	Probing the Atomic Structure of Transient Protein Contacts by Paramagnetic Relaxation Enhancement Solution NMR. <i>Methods in Molecular Biology</i> , 2018, 1688, 243-255.	0.9	10
26	Solution NMR methods for structural and thermodynamic investigation of nanoparticle adsorption equilibria. <i>Nanoscale Advances</i> , 2022, 4, 2583-2607.	4.6	10
27	An allosteric pocket for inhibition of bacterial Enzyme I identified by NMR-based fragment screening. <i>Journal of Structural Biology: X</i> , 2020, 4, 100034.	1.3	7
28	Solution structure ensemble of human obesity-associated protein FTO reveals druggable surface pockets at the interface between the N- and C-terminal domain. <i>Journal of Biological Chemistry</i> , 2022, 298, 101907.	3.4	7
29	Resonance assignment of the 128 kDa enzyme I dimer from <i>Thermoanaerobacter tengcongensis</i> . <i>Biomolecular NMR Assignments</i> , 2019, 13, 287-293.	0.8	5
30	N-terminal fusion of the N-terminal domain of bacterial enzyme I facilitates recombinant expression and purification of the human RNA demethylases FTO and Alkbh5. <i>Protein Expression and Purification</i> , 2020, 167, 105540.	1.3	5
31	<sup>15</sup> N CPMG Relaxation Dispersion for the Investigation of Protein Conformational Dynamics on the $\mu$ s-ms Timescale. <i>Journal of Visualized Experiments</i> , 2021, , .	0.3	5
32	<sup>1</sup> H, <sup>15</sup> N, <sup>13</sup> C backbone resonance assignment of the C-terminal domain of enzyme I from <i>Thermoanaerobacter tengcongensis</i> . <i>Biomolecular NMR Assignments</i> , 2018, 12, 103-106.	0.8	4
33	<sup>1</sup> H, <sup>15</sup> N, <sup>13</sup> C backbone resonance assignment of human Alkbh5. <i>Biomolecular NMR Assignments</i> , 2018, 12, 297-301.	0.8	3
34	An organogel library for solution NMR analysis of nanoparticle suspensions in non-aqueous samples. <i>Journal of Magnetic Resonance</i> , 2020, 321, 106874.	2.1	3
35	A Single Point Mutation Controls the Rate of Interconversion Between the g <sup>+</sup> and g <sup>-</sup> Rotamers of the Histidine 189 $\chi^2$ Angle That Activates Bacterial Enzyme I for Catalysis. <i>Frontiers in Molecular Biosciences</i> , 2021, 8, 699203.	3.5	2
36	Editorial: Structural and Dynamic Aspects of Protein Function and Allostery. <i>Frontiers in Molecular Biosciences</i> , 2022, 9, 876499.	3.5	0