

Oscar Millet

List of Publications by Year in descending order

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Version: 2024-02-01

110
papers

5,612
citations

159585

30
h-index

85541

71
g-index

116
all docs

116
docs citations

116
times ranked

6809
citing authors

#	ARTICLE	IF	CITATIONS
1	Intrinsic dynamics of an enzyme underlies catalysis. <i>Nature</i> , 2005, 438, 117-121.	27.8	1,018
2	Effects of Systematic Prone Positioning in Hypoxemic Acute Respiratory Failure. <i>JAMA - Journal of the American Medical Association</i> , 2004, 292, 2379.	7.4	508
3	The Static Magnetic Field Dependence of Chemical Exchange Linebroadening Defines the NMR Chemical Shift Time Scale. <i>Journal of the American Chemical Society</i> , 2000, 122, 2867-2877.	13.7	316
4	Diagnostic accuracy of non-invasive tests for advanced fibrosis in patients with NAFLD: an individual patient data meta-analysis. <i>Gut</i> , 2022, 71, 1006-1019.	12.1	195
5	Metabolomics and lipidomics in NAFLD: biomarkers and non-invasive diagnostic tests. <i>Nature Reviews Gastroenterology and Hepatology</i> , 2021, 18, 835-856.	17.8	183
6	Deuterium Spin Probes of Side-Chain Dynamics in Proteins. 1. Measurement of Five Relaxation Rates per Deuteron in ¹³ C-Labeled and Fractionally ² H-Enriched Proteins in Solution. <i>Journal of the American Chemical Society</i> , 2002, 124, 6439-6448.	13.7	180
7	SARS-CoV-2 Infection Dysregulates the Metabolomic and Lipidomic Profiles of Serum. <i>IScience</i> , 2020, 23, 101645.	4.1	157
8	Structural Basis for the Aminoacid Composition of Proteins from Halophilic Archea. <i>PLoS Biology</i> , 2009, 7, e1000257.	5.6	152
9	Diagnostic accuracy of elastography and magnetic resonance imaging in patients with NAFLD: A systematic review and meta-analysis. <i>Journal of Hepatology</i> , 2021, 75, 770-785.	3.7	149
10	Dynamic NMR studies of supramolecular complexes. <i>Progress in Nuclear Magnetic Resonance Spectroscopy</i> , 2001, 38, 267-324.	7.5	132
11	Macromolecular Crowding Fails To Fold a Globular Protein in Cells. <i>Journal of the American Chemical Society</i> , 2011, 133, 8082-8085.	13.7	132
12	An NMR Experiment for the Accurate Measurement of Heteronuclear Spin-Lock Relaxation Rates. <i>Journal of the American Chemical Society</i> , 2002, 124, 10743-10753.	13.7	130
13	Deuterium Spin Probes of Side-Chain Dynamics in Proteins. 2. Spectral Density Mapping and Identification of Nanosecond Time-Scale Side-Chain Motions. <i>Journal of the American Chemical Society</i> , 2002, 124, 6449-6460.	13.7	129
14	The energetic cost of domain reorientation in maltose-binding protein as studied by NMR and fluorescence spectroscopy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 12700-12705.	7.1	103
15	Protein Stabilization and the Hofmeister Effect: The Role of Hydrophobic Solvation. <i>Biophysical Journal</i> , 2009, 97, 2595-2603.	0.5	93
16	Structural Characterization of N-Linked Glycans in the Receptor Binding Domain of the SARS-CoV-2 Spike Protein and their Interactions with Human Lectins. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 23763-23771.	13.8	81
17	Side chain to main chain hydrogen bonds stabilize a polyglutamine helix in a transcription factor. <i>Nature Communications</i> , 2019, 10, 2034.	12.8	78
18	Influence of the Hofmeister Anions on Protein Stability As Studied by Thermal Denaturation and Chemical Shift Perturbation. <i>Biochemistry</i> , 2007, 46, 917-923.	2.5	72

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19	The Effects of Mutations on Motions of Side-chains in Protein L Studied by 2H NMR Dynamics and Scalar Couplings. <i>Journal of Molecular Biology</i> , 2003, 329, 551-563.	4.2	59
20	Hydration Dynamics of a Halophilic Protein in Folded and Unfolded States. <i>Journal of Physical Chemistry B</i> , 2012, 116, 3436-3444.	2.6	52
21	Halophilic Protein Adaptation Results from Synergistic Residue-Ion Interactions in the Folded and Unfolded States. <i>Chemistry and Biology</i> , 2015, 22, 1597-1607.	6.0	48
22	Metabolic Characterization of Advanced Liver Fibrosis in HCV Patients as Studied by Serum 1H-NMR Spectroscopy. <i>PLoS ONE</i> , 2016, 11, e0155094.	2.5	44
23	Measurement of One Bond Dipolar Couplings through Lanthanide-Induced Orientation of a Calcium-Binding Protein. <i>Journal of the American Chemical Society</i> , 1999, 121, 8947-8948.	13.7	41
24	Halophilic enzyme activation induced by salts. <i>Scientific Reports</i> , 2011, 1, 6.	3.3	41
25	Directional coupling of oligodendrocyte connexin47 and astrocyte connexin43 gap junctions. <i>Glia</i> , 2018, 66, 2340-2352.	4.9	41
26	Repurposing ciclopirox as a pharmacological chaperone in a model of congenital erythropoietic porphyria. <i>Science Translational Medicine</i> , 2018, 10, .	12.4	38
27	Carbohydrate Affinity for the Glucose-Galactose Binding Protein Is Regulated by Allosteric Domain Motions. <i>Journal of the American Chemical Society</i> , 2012, 134, 19869-19876.	13.7	36
28	O-GlcNAcylated p53 in the liver modulates hepatic glucose production. <i>Nature Communications</i> , 2021, 12, 5068.	12.8	36
29	Synthesis of aryl 3-O- β -cellobiosyl- β -d-glucopyranosides for reactivity studies of 1,3-1,4- β -glucanases. <i>Carbohydrate Research</i> , 1998, 310, 53-64.	2.3	34
30	An Epoxide Intermediate in Glycosidase Catalysis. <i>ACS Central Science</i> , 2020, 6, 760-770.	11.3	34
31	Structural and functional analyses of the interaction of archaeal RNA polymerase with DNA. <i>Nucleic Acids Research</i> , 2012, 40, 9941-9952.	14.5	33
32	Diagnostic Potential of the Plasma Lipidome in Infectious Disease: Application to Acute SARS-CoV-2 Infection. <i>Metabolites</i> , 2021, 11, 467.	2.9	33
33	Therapeutic potential of proteasome inhibitors in congenital erythropoietic porphyria. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 18238-18243.	7.1	32
34	Uneven metabolic and lipidomic profiles in recovered COVID-19 patients as investigated by plasma NMR metabolomics. <i>NMR in Biomedicine</i> , 2022, 35, e4637.	2.8	32
35	Uroporphyrinogen III Synthase Mutations Related to Congenital Erythropoietic Porphyria Identify a Key Helix for Protein Stability. <i>Biochemistry</i> , 2009, 48, 454-461.	2.5	31
36	Glycoprofile Analysis of an Intact Glycoprotein As Inferred by NMR Spectroscopy. <i>ACS Central Science</i> , 2019, 5, 1554-1561.	11.3	31

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37	Integrative Modeling of Plasma Metabolic and Lipoprotein Biomarkers of SARS-CoV-2 Infection in Spanish and Australian COVID-19 Patient Cohorts. <i>Journal of Proteome Research</i> , 2021, 20, 4139-4152.	3.7	31
38	Inhibition of carnitine palmitoyltransferase 1A in hepatic stellate cells protects against fibrosis. <i>Journal of Hepatology</i> , 2022, 77, 15-28.	3.7	31
39	Metabolic subtypes of patients with NAFLD exhibit distinctive cardiovascular risk profiles. <i>Hepatology</i> , 2022, 76, 1121-1134.	7.3	31
40	^{LDL} receptor/lipoprotein recognition: endosomal weakening of ApoB and ApoE binding to the convex face of the ^{LR}5 repeat. <i>FEBS Journal</i> , 2014, 281, 1534-1546.	4.7	30
41	Structural basis of pyrrole polymerization in human porphobilinogen deaminase. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2018, 1862, 1948-1955.	2.4	29
42	Pivoting between Calmodulin Lobes Triggered by Calcium in the Kv7.2/Calmodulin Complex. <i>PLoS ONE</i> , 2014, 9, e86711.	2.5	29
43	NMR-based newborn urine screening for optimized detection of inherited errors of metabolism. <i>Scientific Reports</i> , 2019, 9, 13067.	3.3	28
44	Structural basis and energy landscape for the Ca ²⁺ gating and modulation of the Kv7.2 K ⁺ channel. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 2395-2400.	7.1	27
45	Abnormal concentration of porphyrins in serum from COVID-19 patients. <i>British Journal of Haematology</i> , 2020, 190, e265-e267.	2.5	27
46	NMR measurement of the off rate from the first calcium-binding site of the synaptotagmin I C2A domain. <i>FEBS Letters</i> , 2002, 516, 93-96.	2.8	26
47	Dissecting the Microscopic Steps of the Cyclophilin A Enzymatic Cycle on the Biological HIV-1 Capsid Substrate by NMR. <i>Journal of Molecular Biology</i> , 2010, 403, 723-738.	4.2	25
48	Unraveling the Conformational Landscape of Ligand Binding to Glucose/Galactose-Binding Protein by Paramagnetic NMR and MD Simulations. <i>ACS Chemical Biology</i> , 2016, 11, 2149-2157.	3.4	25
49	Missense UROS mutations causing congenital erythropoietic porphyria reduce UROS homeostasis that can be rescued by proteasome inhibition. <i>Human Molecular Genetics</i> , 2017, 26, 1565-1576.	2.9	25
50	On the Origin of the Thermostabilization of Proteins Induced by Sodium Phosphate. <i>Journal of the American Chemical Society</i> , 2005, 127, 9690-9691.	13.7	24
51	Fluorinated Carbohydrates as Lectin Ligands: Simultaneous Screening of a Monosaccharide Library and Chemical Mapping by ¹⁹ F NMR Spectroscopy. <i>Journal of Organic Chemistry</i> , 2020, 85, 16072-16081.	3.2	24
52	¹⁵ N Relaxation NMR Studies of Prolyl Oligopeptidase, an 80 kDa Enzyme, Reveal a Pre-existing Equilibrium between Different Conformational States. <i>ChemBioChem</i> , 2011, 12, 2737-2739.	2.6	23
53	A Metabolomics Signature Linked To Liver Fibrosis In The Serum Of Transplanted Hepatitis C Patients. <i>Scientific Reports</i> , 2017, 7, 10497.	3.3	23
54	Modulation of the potassium channel KcsA by anionic phospholipids: Role of arginines at the non-annular lipid binding sites. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2019, 1861, 183029.	2.6	22

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55	Unravelling the Time Scale of Conformational Plasticity and Allostery in Glycan Recognition by Human Galectin-1. <i>Chemistry - A European Journal</i> , 2020, 26, 15643-15653.	3.3	22
56	A molecular signature for the metabolic syndrome by urine metabolomics. <i>Cardiovascular Diabetology</i> , 2021, 20, 155.	6.8	22
57	¹ H NMR-Based Urine Metabolomics Reveals Signs of Enhanced Carbon and Nitrogen Recycling in Prostate Cancer. <i>Journal of Proteome Research</i> , 2020, 19, 2419-2428.	3.7	21
58	Tuning intracellular homeostasis of human uroporphyrinogen III synthase by enzyme engineering at a single hotspot of congenital erythropoietic porphyria. <i>Human Molecular Genetics</i> , 2014, 23, 5805-5813.	2.9	20
59	Increased serum miR-193a-5p during non-alcoholic fatty liver disease progression: Diagnostic and mechanistic relevance. <i>JHEP Reports</i> , 2022, 4, 100409.	4.9	20
60	Intracellular Rescue of the Uroporphyrinogen III Synthase Activity in Enzymes Carrying the Hotspot Mutation C73R. <i>Journal of Biological Chemistry</i> , 2011, 286, 13127-13133.	3.4	19
61	The Use of Dansyl-Calmodulin to Study Interactions with Channels and Other Proteins. <i>Methods in Molecular Biology</i> , 2013, 998, 217-231.	0.9	19
62	<i>In Vitro</i> Approach To Identify Key Amino Acids in Low Susceptibility of Rabbit Prion Protein to Misfolding. <i>Journal of Virology</i> , 2017, 91, .	3.4	19
63	Thermodynamics of protein- Ca^{2+} and Mg^{2+} binding to the fifth binding module of the LDL receptor. <i>Proteins: Structure, Function and Bioinformatics</i> , 2010, 78, 950-961.	2.6	18
64	A Three-protein Charge Zipper Stabilizes a Complex Modulating Bacterial Gene Silencing. <i>Journal of Biological Chemistry</i> , 2015, 290, 21200-21212.	3.4	18
65	Depletion of mitochondrial methionine adenosyltransferase 1 triggers mitochondrial dysfunction in alcohol-associated liver disease. <i>Nature Communications</i> , 2022, 13, 557.	12.8	18
66	A New Method for Measuring Diffusion Coefficients by 2D NMR using Accordion Spectroscopy. <i>Journal of Magnetic Resonance</i> , 1998, 131, 166-169.	2.1	17
67	Contribution of Shape and Charge to the Inhibition of a Family GH99 <i>endo</i> - α -1,2-Mannanase. <i>Journal of the American Chemical Society</i> , 2017, 139, 1089-1097.	13.7	17
68	Transmembrane and Juxtamembrane Structure of α L Integrin in Bicelles. <i>PLoS ONE</i> , 2013, 8, e74281.	2.5	17
69	Molecular Determinants of Chronic Liver Disease as Studied by NMR-Metabolomics. <i>Current Topics in Medicinal Chemistry</i> , 2017, 17, 2752-2766.	2.1	17
70	J-Edited Diffusional Proton Nuclear Magnetic Resonance Spectroscopic Measurement of Glycoprotein and Supramolecular Phospholipid Biomarkers of Inflammation in Human Serum. <i>Analytical Chemistry</i> , 2022, 94, 1333-1341.	6.5	17
71	Protein Tyrosine Phosphatase Oligomerization Studied by a Combination of ¹⁵ N NMR Relaxation and ¹²⁹ Xe NMR. Effect of Buffer Containing Arginine and Glutamic Acid. <i>Journal of the American Chemical Society</i> , 2007, 129, 5946-5953.	13.7	16
72	Diagonal-Free 3D/4D HN,HN-TROSY-NOESY-TROSY. <i>Journal of the American Chemical Society</i> , 2010, 132, 2138-2139.	13.7	16

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73	The Mitochondrial Intermembrane Space Oxidoreductase Mia40 Funnels the Oxidative Folding Pathway of the Cytochrome c Oxidase Assembly Protein Cox19. <i>Journal of Biological Chemistry</i> , 2014, 289, 9852-9864.	3.4	16
74	De Novo Designed Library of Linear Helical Peptides: An Exploratory Tool in the Discovery of Protein-Protein Interaction Modulators. <i>ACS Combinatorial Science</i> , 2014, 16, 250-258.	3.8	16
75	Sensitive detection of SARS-CoV-2 seroconversion by flow cytometry reveals the presence of nucleoprotein-reactive antibodies in unexposed individuals. <i>Communications Biology</i> , 2021, 4, 486.	4.4	15
76	Protein Functional Dynamics in Multiple Timescales as Studied by NMR Spectroscopy. <i>Advances in Protein Chemistry and Structural Biology</i> , 2013, 92, 219-251.	2.3	14
77	Active-Site-Directed Inhibitors of Prolyl Oligopeptidase Abolish Its Conformational Dynamics. <i>ChemBioChem</i> , 2016, 17, 913-917.	2.6	14
78	Disulfide driven folding for a conditionally disordered protein. <i>Scientific Reports</i> , 2017, 7, 16994.	3.3	14
79	Bioengineered PBCD variant improves the therapeutic index of gene therapy vectors for acute intermittent porphyria. <i>Human Molecular Genetics</i> , 2018, 27, 3688-3696.	2.9	14
80	Structural, thermodynamic, and mechanistical studies in uroporphyrinogen III synthase: Molecular basis of congenital erythropoietic porphyria. <i>Advances in Protein Chemistry and Structural Biology</i> , 2011, 83, 43-74.	2.3	13
81	Hereditary tyrosinemia type I-associated mutations in fumarylacetoacetate hydrolase reduce the enzyme stability and increase its aggregation rate. <i>Journal of Biological Chemistry</i> , 2019, 294, 13051-13060.	3.4	13
82	Metabolic Landscape of the Mouse Liver by Quantitative ³¹ P Nuclear Magnetic Resonance Analysis of the Phosphorome. <i>Hepatology</i> , 2021, 74, 148-163.	7.3	13
83	NMR of glycoproteins: profiling, structure, conformation and interactions. <i>Current Opinion in Structural Biology</i> , 2021, 68, 9-17.	5.7	13
84	Exploration of Human Serum Lipoprotein Supramolecular Phospholipids Using Statistical Heterospectroscopy in <i>n</i> -Dimensions (SHY- <i>n</i>): Identification of Potential Cardiovascular Risk Biomarkers Related to SARS-CoV-2 Infection. <i>Analytical Chemistry</i> , 2022, 94, 4426-4436.	6.5	13
85	A New Spin Probe of Protein Dynamics: ¹⁵ N Nitrogen Relaxation in ² H Amide Groups. <i>Journal of the American Chemical Society</i> , 2005, 127, 3220-3229.	13.7	12
86	Anion modulation of the ¹ H/ ² H exchange rates in backbone amide protons monitored by NMR spectroscopy. <i>Protein Science</i> , 2007, 16, 2733-2740.	7.6	12
87	Probing nucleotide-binding effects on backbone dynamics and folding of the nucleotide-binding domain of the sarcoplasmic/endoplasmic-reticulum Ca ²⁺ -ATPase. <i>Biochemical Journal</i> , 2004, 379, 235-242.	3.7	11
88	Synthesis, Dihydrofolate Reductase Inhibition, Anti-proliferative Testing, and Saturation Transfer Difference 1H-NMR Study of Some New 2-Substituted-4,6-diaminopyrimidine Derivatives. <i>Chemical and Pharmaceutical Bulletin</i> , 2012, 60, 70-78.	1.3	11
89	From 1,4-Disaccharide to 1,3-Glycosyl Carbasugar: Synthesis of a Bespoke Inhibitor of Family GH99 Endo- α -mannosidase. <i>Organic Letters</i> , 2018, 20, 7488-7492.	4.6	11
90	Structural Characterization of N-Linked Glycans in the Receptor Binding Domain of the SARS-CoV-2 Spike Protein and their Interactions with Human Lectins. <i>Angewandte Chemie</i> , 2020, 132, 23971-23979.	2.0	9

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91	Study of the Metabolomics of Equine Preovulatory Follicular Fluid: A Way to Improve Current In Vitro Maturation Media. <i>Animals</i> , 2020, 10, 883.	2.3	9
92	Clicked bis-PEG-peptide conjugates for studying calmodulin-Kv7.2 channel binding. <i>Organic and Biomolecular Chemistry</i> , 2014, 12, 8877-8887.	2.8	8
93	Conformation-sensitive antibody reveals an altered cytosolic PAS/CNBh assembly during hERG channel gating. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	8
94	Mutation of Ser-50 and Cys-66 in Snapin Modulates Protein Structure and Stability. <i>Biochemistry</i> , 2012, 51, 3470-3484.	2.5	6
95	Measurement of Relaxation Rates of NH and H α Backbone Protons in Proteins with Tailored Initial Conditions. <i>Journal of Magnetic Resonance</i> , 1999, 139, 434-438.	2.1	5
96	Identification of novel UROS mutations in a patient with congenital erythropoietic porphyria and efficient treatment by phlebotomy. <i>Molecular Genetics and Metabolism Reports</i> , 2021, 27, 100722.	1.1	5
97	Congenital Erythropoietic Porphyria. <i>Handbook of Porphyrin Science</i> , 2013, , 151-217.	0.8	3
98	Therapeutic Targeting of Fumaryl Acetoacetate Hydrolase in Hereditary Tyrosinemia Type I. <i>International Journal of Molecular Sciences</i> , 2021, 22, 1789.	4.1	3
99	A graphical method for the analysis of anisotropic rotational diffusion in proteins. <i>Journal of Biomolecular NMR</i> , 2001, 19, 181-185.	2.8	2
100	Backbone chemical shifts assignments of d-allose binding protein in the free form and in complex with d-allose. <i>Biomolecular NMR Assignments</i> , 2011, 5, 31-34.	0.8	2
101	Scientific Response to the Coronavirus Crisis in Spain: Collaboration and Multidisciplinarity. <i>ACS Chemical Biology</i> , 2020, 15, 1722-1723.	3.4	2
102	Improving the Pharmacological Properties of Ciclopirox for Its Use in Congenital Erythropoietic Porphyria. <i>Journal of Personalized Medicine</i> , 2021, 11, 485.	2.5	2
103	Cosolute modulation of protein oligomerization reactions in the homeostatic timescale. <i>Biophysical Journal</i> , 2021, 120, 2067-2077.	0.5	2
104	An easy NMR method to study the formation of parallel β -sheets in peptide aggregates. <i>International Journal of Peptide Research and Therapeutics</i> , 1999, 6, 247-253.	0.1	1
105	Unravelling the molecular determinants of metabolic syndrome thanks to NMR-metabolomics of urine and serum samples. <i>Journal of Hepatology</i> , 2020, 73, S288-S289.	3.7	1
106	Chapter 3. Receptor-based NMR Techniques in Drug Discovery. <i>RSC Drug Discovery Series</i> , 0, , 44-66.	0.3	1
107	Assessing the Mobility of Severe Acute Respiratory Syndrome Coronavirus-2 Spike Protein Glycans by Structural and Computational Methods. <i>Frontiers in Microbiology</i> , 2022, 13, 870938.	3.5	1
108	An easy NMR method to study the formation of parallel β -sheets in peptide aggregates. <i>International Journal of Peptide Research and Therapeutics</i> , 1999, 6, 247-253.	0.1	0

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109	Natural and pharmacological chaperones against accelerated protein degradation: uroporphyrinogen III synthase and congenital erythropoietic porphyria. , 2020, , 389-413.		0
110	Self-assembly of synthetic peptides: Formation of amphipathic surfaces and head-to-tail self-assembly. , 2002, , 316-317.		0