

# Nicholas C Fitzkee

## List of Publications by Year in descending order

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53  
papers

1,592  
citations

331259

21  
h-index

315357

38  
g-index

58  
all docs

58  
docs citations

58  
times ranked

2163  
citing authors

#	ARTICLE	IF	CITATIONS
1	Reassessing random-coil statistics in unfolded proteins. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 12497-12502.	3.3	306
2	The Protein Coil Library: A structural database of nonhelix, nonstrand fragments derived from the PDB. Proteins: Structure, Function and Bioinformatics, 2005, 58, 852-854.	1.5	92
3	Facile measurement of $^1\text{H}$ - $^{15}\text{N}$ residual dipolar couplings in larger perdeuterated proteins. Journal of Biomolecular NMR, 2010, 48, 65-70.	1.6	92
4	A Three-Step Model for Protein-Gold Nanoparticle Adsorption. Journal of Physical Chemistry C, 2014, 118, 8134-8142.	1.5	88
5	Electrostatic Interactions and Protein Competition Reveal a Dynamic Surface in Gold Nanoparticle-Protein Adsorption. Journal of Physical Chemistry C, 2016, 120, 24231-24239.	1.5	77
6	A novel method reveals that solvent water favors polyproline II over $\beta^2$ -strand conformation in peptides and unfolded proteins: conditional hydrophobic accessible surface area (CHASA). Protein Science, 2009, 14, 111-118.	3.1	76
7	Effect of Biochar on Microbial Growth: A Metabolomics and Bacteriological Investigation in <i>E. coli</i> . Environmental Science & Technology, 2019, 53, 2635-2646.	4.6	73
8	Determination of the Structures of Symmetric Protein Oligomers from NMR Chemical Shifts and Residual Dipolar Couplings. Journal of the American Chemical Society, 2011, 133, 6288-6298.	6.6	65
9	Studying the Effects of Cysteine Residues on Protein Interactions with Silver Nanoparticles. Journal of Physical Chemistry C, 2015, 119, 2910-2916.	1.5	60
10	Are proteins made from a limited parts list?. Trends in Biochemical Sciences, 2005, 30, 73-80.	3.7	59
11	Steric restrictions in protein folding: An $\alpha$ -helix cannot be followed by a contiguous $\alpha$ -strand. Protein Science, 2004, 13, 633-639.	3.1	58
12	Probing the Effects of Cysteine Residues on Protein Adsorption onto Gold Nanoparticles Using Wild-Type and Mutated GB3 Proteins. Langmuir, 2013, 29, 10990-10996.	1.6	48
13	Sterics and Solvation Winnow Accessible Conformational Space for Unfolded Proteins. Journal of Molecular Biology, 2005, 353, 873-887.	2.0	42
14	Understanding Protein Structure Deformation on the Surface of Gold Nanoparticles of Varying Size. Journal of Physical Chemistry C, 2016, 120, 27944-27953.	1.5	40
15	Protein Interactions with Nanoparticle Surfaces: Highlighting Solution NMR Techniques. Israel Journal of Chemistry, 2019, 59, 962-979.	1.0	40
16	AdcAll of Streptococcus pneumoniae Affects Pneumococcal Invasiveness. PLoS ONE, 2016, 11, e0146785.	1.1	39
17	Measuring rapid hydrogen exchange in the homodimeric 36 kDa HIV-1 integrase catalytic core domain. Protein Science, 2011, 20, 500-512.	3.1	34
18	Using Hydrogen-Deuterium Exchange to Monitor Protein Structure in the Presence of Gold Nanoparticles. Journal of Physical Chemistry B, 2014, 118, 14148-14156.	1.2	27

#	ARTICLE	IF	CITATIONS
19	Characterization of the Copper(II) Binding Sites in Human Carbonic Anhydrase II. <i>Inorganic Chemistry</i> , 2015, 54, 5671-5680.	1.9	25
20	Physical and chemical determinants of turn conformations in globular proteins. <i>Protein Science</i> , 2007, 16, 1720-1727.	3.1	24
21	Solution Conformation and Dynamics of the HIV-1 Integrase Core Domain. <i>Journal of Biological Chemistry</i> , 2010, 285, 18072-18084.	1.6	24
22	Case Report: A Retrospective Serological Analysis Indicating Human Exposure to Tick-Borne Relapsing Fever Spirochetes in Texas. <i>PLoS Neglected Tropical Diseases</i> , 2015, 9, e0003617.	1.3	22
23	Understanding the Adsorption of Peptides and Proteins onto PEGylated Gold Nanoparticles. <i>Molecules</i> , 2021, 26, 5788.	1.7	21
24	Electrostatic effects in unfolded staphylococcal nuclease. <i>Protein Science</i> , 2008, 17, 216-227.	3.1	17
25	Quantitative Measurement of Multiprotein Nanoparticle Interactions Using NMR Spectroscopy. <i>Analytical Chemistry</i> , 2021, 93, 11982-11990.	3.2	17
26	Beta turn propensity and a model polymer scaling exponent identify intrinsically disordered phase-separating proteins. <i>Journal of Biological Chemistry</i> , 2021, 297, 101343.	1.6	17
27	Modeling the Early Stages of Phase Separation in Disordered Elastin-like Proteins. <i>Biophysical Journal</i> , 2018, 114, 1563-1578.	0.2	16
28	<i>Streptococcus pneumoniae</i> metal homeostasis alters cellular metabolism. <i>Metallomics</i> , 2020, 12, 1416-1427.	1.0	13
29	Surface Plasmon Resonance, Formation Mechanism, and Surface Enhanced Raman Spectroscopy of Ag <sup>+</sup> -Stained Gold Nanoparticles. <i>Frontiers in Chemistry</i> , 2019, 7, 27.	1.8	11
30	Pneumococcal surface adhesion A protein (PsaA) interacts with human Annexin A2 on airway epithelial cells. <i>Virulence</i> , 2021, 12, 1841-1854.	1.8	10
31	Understanding How Staphylococcal Autolysin Domains Interact With Polystyrene Surfaces. <i>Frontiers in Microbiology</i> , 2021, 12, 658373.	1.5	9
32	Feasibility of Manufacturing Strand-Based Wood Composite Treated with $\beta$ -Cyclodextrin-Boric Acid for Fungal Decay Resistance. <i>Polymers</i> , 2020, 12, 274.	2.0	8
33	Solution NMR of Nanoparticles in Serum: Protein Competition Influences Binding Thermodynamics and Kinetics. <i>Frontiers in Physiology</i> , 2021, 12, 715419.	1.3	8
34	Physicochemical and Antimicrobial Properties of Thermosensitive Chitosan Hydrogel Loaded with Fosfomicin. <i>Marine Drugs</i> , 2021, 19, 144.	2.2	7
35	Molecular Mechanism of the Pin1-Histone H1 Interaction. <i>Biochemistry</i> , 2019, 58, 788-798.	1.2	6
36	Using NMR Spectroscopy To Measure Protein Binding Capacity on Gold Nanoparticles. <i>Journal of Chemical Education</i> , 2020, 97, 820-824.	1.1	6

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37	1H, 15N, and 13C chemical shift assignments of the regulatory domain of human calcineurin. <i>Biomolecular NMR Assignments</i> , 2017, 11, 215-219.	0.4	3
38	Metal Ion Binding Induces Local Protein Unfolding and Destabilizes Human Carbonic Anhydrase II. <i>Inorganic Chemistry</i> , 2022, 61, 1249-1253.	1.9	3
39	How do Nanoparticle Size and Protein Charge Affect Gold Nanoparticle-Protein Interactions?. <i>Biophysical Journal</i> , 2016, 110, 529a-530a.	0.2	2
40	Monitoring Protein Structure on the Surface of Gold Nanoparticles using NMR Spectroscopy. <i>Biophysical Journal</i> , 2015, 108, 375a-376a.	0.2	1
41	Modeling the Early Stages of Aggregation in Disordered Elastin-Like Proteins. <i>Biophysical Journal</i> , 2017, 112, 481a.	0.2	1
42	Understanding the Electrostatic Contribution to Gold Nanoparticle-Protein Binding. <i>Biophysical Journal</i> , 2016, 110, 504a.	0.2	0
43	Improving the Performance of Simulations of the Intrinsically Disordered N-Terminal Domain from P53. <i>Biophysical Journal</i> , 2017, 112, 207a-208a.	0.2	0
44	Modulating Protein-Nanoparticle Interaction Energetics using Site Directed Mutagenesis. <i>Biophysical Journal</i> , 2017, 112, 302a.	0.2	0
45	An NMR Study of Pin1- Histone H1 Interactions. <i>Biophysical Journal</i> , 2017, 112, 47a.	0.2	0
46	Structure and Orientation of a Small Protein on a Gold Nanoparticle Surface. <i>Biophysical Journal</i> , 2018, 114, 565a-566a.	0.2	0
47	Using Histone H1 Derived Peptides to Investigate Binding Affinity and Inter-Domain Dynamics in Human Pin1. <i>Biophysical Journal</i> , 2019, 116, 463a.	0.2	0
48	The Adsorption Kinetics of Biomolecules on to Pegylated Gold Nanoparticles. <i>Biophysical Journal</i> , 2019, 116, 448a.	0.2	0
49	Investigating How Protein Mixtures Interact with Gold Nanoparticles. <i>Biophysical Journal</i> , 2019, 116, 48a-49a.	0.2	0
50	Structural Characterization and Surface Adsorption of <i>S. epidermidis</i> Autolysin E - Amidase, a Protein Implicated in Biofilm Formation. <i>Biophysical Journal</i> , 2020, 118, 42a.	0.2	0
51	Thermodynamics of Protein-Surface Binding - the Model Makes all the Difference. <i>Biophysical Journal</i> , 2020, 118, 36a-37a.	0.2	0
52	Structure-function Relationships in Biofilms Characterizing the Staphylococcal Autolysin R2 Repeat Domain. <i>Biophysical Journal</i> , 2020, 118, 183a.	0.2	0
53	A Host-guest System for Understanding Protein-nanoparticle Interactions. <i>Biophysical Journal</i> , 2020, 118, 358a.	0.2	0