

# Kristin Bartik

## List of Publications by Year in descending order

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53  
papers

1,687  
citations

304602

22  
h-index

289141

40  
g-index

58  
all docs

58  
docs citations

58  
times ranked

2203  
citing authors

#	ARTICLE	IF	CITATIONS
1	129Xe and 1H NMR Study of the Reversible Trapping of Xenon by Cryptophane-A in Organic Solution. <i>Journal of the American Chemical Society</i> , 1998, 120, 784-791.	6.6	187
2	Polyoxometalates as a Novel Class of Artificial Proteases: Selective Hydrolysis of Lysozyme under Physiological pH and Temperature Promoted by a Cerium(IV) Keggin-Type Polyoxometalate. <i>Chemistry - A European Journal</i> , 2013, 19, 2848-2858.	1.7	134
3	Topsentins, new toxic bis-indole alkaloids from the marine sponge <i>Topsentiagenitrix</i> . <i>Canadian Journal of Chemistry</i> , 1987, 65, 2118-2121.	0.6	109
4	NMR study of the reversible complexation of xenon by cucurbituril. <i>Perkin Transactions II RSC</i> , 2001, , 804-807.	1.1	78
5	Aromatic-Carbohydrate Interactions: An NMR and Computational Study of Model Systems. <i>Chemistry - A European Journal</i> , 2008, 14, 7570-7578.	1.7	75
6	UV-Vis and NMR study of the formation of gold nanoparticles by citrate reduction: Observation of gold-citrate aggregates. <i>Journal of Colloid and Interface Science</i> , 2013, 399, 1-5.	5.0	75
7	Astrobiology and the Possibility of Life on Earth and Elsewhere. <i>Space Science Reviews</i> , 2017, 209, 1-42.	3.7	66
8	NMR Investigation of the complexation of neutral guests by cucurbituril. <i>Perkin Transactions II RSC</i> , 2001, , 2104-2107.	1.1	63
9	Fluorinated Bambusurils as Highly Effective and Selective Transmembrane Cl <sup>-</sup> /HCO <sub>3</sub> <sup>-</sup> Antiporters. <i>CheM</i> , 2019, 5, 429-444.	5.8	63
10	Probing Molecular Cavities in $\beta$ -Cyclodextrin Solutions by Xenon NMR. <i>Journal of Magnetic Resonance Series B</i> , 1995, 109, 164-168.	1.6	59
11	Probing Proteins in Solution by 129Xe NMR Spectroscopy. <i>Journal of Magnetic Resonance</i> , 2001, 150, 167-174.	1.2	54
12	Structural characterization of the papaya cysteine proteinases at low pH. <i>Biochemical and Biophysical Research Communications</i> , 2006, 341, 620-626.	1.0	50
13	Rapid and Selective Detection of Proteins by Dual Trapping Using Gold Nanoparticles Functionalized with Peptide Aptamers. <i>ACS Sensors</i> , 2016, 1, 929-933.	4.0	50
14	Efficient Vanadium-Catalyzed Aerobic C-C Bond Oxidative Cleavage of Vicinal Diols. <i>Advanced Synthesis and Catalysis</i> , 2018, 360, 3286-3296.	2.1	38
15	Fluorescent Chemosensors for Anions and Contact Ion Pairs with a Cavity-Based Selectivity. <i>Journal of Organic Chemistry</i> , 2014, 79, 6179-6188.	1.7	37
16	Amino acid induced fractal aggregation of gold nanoparticles: Why and how. <i>Journal of Colloid and Interface Science</i> , 2016, 464, 160-166.	5.0	37
17	Repositioning Chloride Transmembrane Transporters: Transport of Organic Ion Pairs. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 6921-6925.	7.2	30
18	Fluoride Binding in Water: A New Environment for a Known Receptor. <i>ChemPhysChem</i> , 2008, 9, 2168-2171.	1.0	29

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19	Is it Useful to Have a Clear-cut Definition of Life? On the Use of Fuzzy Logic in Prebiotic Chemistry. <i>Origins of Life and Evolution of Biospheres</i> , 2010, 40, 137-143.	0.8	28
20	A comprehensive study to protein retention in hydrophobic interaction chromatography. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2016, 1032, 182-188.	1.2	27
21	Group Contribution Analysis of Xenon NMR Solvent Shifts. <i>Journal of Physical Chemistry A</i> , 1997, 101, 5278-5283.	1.1	26
22	Comparison of the Thermodynamics and Base-Pair Dynamics of a Full LNA:DNA Duplex and of the Isosequential DNA:DNA Duplex. <i>Biochemistry</i> , 2009, 48, 8473-8482.	1.2	22
23	Do Serine Octamers Exist in Solution? Relevance of this Question in the Context of the Origin of Homochirality on Earth. <i>European Journal of Organic Chemistry</i> , 2006, 2006, 3069-3073.	1.2	21
24	Comparison of the NMR enantiodifferentiation of a chiral ruthenium(ii) complex of C2 symmetry using the TRISPHAT anion and a lanthanide shift reagent. <i>New Journal of Chemistry</i> , 2003, 27, 748-751.	1.4	20
25	Colorimetric and fluorescence "turn-on" recognition of fluoride by a maleonitrile-based uranyl salen-complex. <i>Dyes and Pigments</i> , 2016, 135, 94-101.	2.0	20
26	Monitoring Fluoride Binding in DMSO: Why is a Singular Binding Behavior Observed?. <i>European Journal of Organic Chemistry</i> , 2012, 2012, 3570-3574.	1.2	19
27	Novel Method for the Measurement of Xenon Gas Solubility Using <sup>129</sup> Xe NMR Spectroscopy. <i>Journal of Physical Chemistry A</i> , 2006, 110, 10770-10776.	1.1	18
28	<sup>1</sup> H-NMR analysis of turkey egg-white lysozyme and comparison with hen egg-white lysozyme. <i>FEBS Journal</i> , 1993, 215, 255-266.	0.2	17
29	Pulsed Sonochemistry. <i>Journal of Physical Chemistry A</i> , 1998, 102, 9177-9182.	1.1	17
30	Can Monoatomic Xenon Become Chiral?. <i>ChemPhysChem</i> , 2000, 1, 221-224.	1.0	17
31	Calix[6]arenes with halogen bond donor groups as selective and efficient anion transporters. <i>Chemical Communications</i> , 2022, 58, 6255-6258.	2.2	16
32	Prebiotic chemistry: A fuzzy field. <i>Comptes Rendus Chimie</i> , 2011, 14, 388-391.	0.2	15
33	Primary amine recognition in water by a calix[6]aza-cryptand incorporated in dodecylphosphocholine micelles. <i>Organic and Biomolecular Chemistry</i> , 2015, 13, 2931-2938.	1.5	15
34	Fluoride binding in water with the use of micellar nanodevices based on salophen complexes. <i>Organic and Biomolecular Chemistry</i> , 2015, 13, 2437-2443.	1.5	14
35	Study by <sup>23</sup> Na-NMR, <sup>1</sup> H-NMR, and Ultraviolet Spectroscopy of the Thermal Stability of an 11-Basepair Oligonucleotide. <i>Biophysical Journal</i> , 2000, 78, 1059-1069.	0.2	13
36	Molecular polarization and molecular chiralization: The first example of a chiralized xenon atom. <i>Chirality</i> , 2001, 13, 2-6.	1.3	13

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37	A selective calix[6]arene-based fluorescent chemosensor for phosphatidylcholine type lipids. <i>Organic and Biomolecular Chemistry</i> , 2016, 14, 10201-10207.	1.5	11
38	Specific Binding of Primary Ammonium Ions and Lysine-Containing Peptides in Protic Solvents by Hexahomotrioxacalix[3]arenes. <i>Journal of Organic Chemistry</i> , 2020, 85, 10062-10071.	1.7	11
39	The Potential of <sup>129</sup> Xe NMR Relaxation Measurements for the Study of Heme Proteins. <i>ChemPhysChem</i> , 2002, 3, 812-814.	1.0	10
40	Submerging a Biomimetic Metallo-Receptor in Water for Molecular Recognition: Micellar Incorporation or Water Solubilization? A Case Study. <i>Chemistry - A European Journal</i> , 2018, 24, 17964-17974.	1.7	10
41	A method for the estimation of $\phi_1$ torsion angles in proteins. <i>Journal of Biomolecular NMR</i> , 1993, 3, 415.	1.6	9
42	The Potential of the Xenon $\alpha$ -Spin-Spy-Methodology for the Study of Configurational Equilibria in Solution. <i>ChemPhysChem</i> , 2003, 4, 305-308.	1.0	9
43	Paramagnetic Relaxation Enhancement Experiments: A Valuable Tool for the Characterization of Micellar Nanodevices. <i>Journal of Physical Chemistry B</i> , 2013, 117, 11654-11659.	1.2	9
44	Protonation linked equilibria and apparent affinity constants: the thermodynamic profile of the $\Delta\epsilon$ -chymotrypsin-flavin interaction. <i>European Biophysics Journal</i> , 2007, 37, 11-18.	1.2	8
45	The search for a deterministic origin for the presence of nonracemic amino acids in meteorites: A computational approach. <i>Chirality</i> , 2011, 23, 367-373.	1.3	8
46	Probing polymer colloids by <sup>129</sup> Xe NMR. <i>Journal of Colloid and Interface Science</i> , 2009, 330, 344-351.	5.0	7
47	Developments in the Characterisation of the Catalytic Triad of $\Delta\epsilon$ -Chymotrypsin: Effect of the Protonation State of Asp102 on the <sup>1</sup> H NMR Signals of His57. <i>ChemBioChem</i> , 2007, 8, 51-54.	1.3	6
48	DNA-Promoted Auto-Assembly of Gold Nanoparticles: Effect of the DNA Sequence on the Stability of the Assemblies. <i>Polymers</i> , 2013, 5, 1041-1055.	2.0	5
49	Repositioning Chloride Transmembrane Transporters: Transport of Organic Ion Pairs. <i>Angewandte Chemie</i> , 2019, 131, 6995-6999.	1.6	5
50	Xenon NMR as a Probe for Microporous and Mesoporous Solids, Polymers, Liquid Crystals, Solutions, Flames, Proteins, Imaging. <i>ChemInform</i> , 2006, 37, no.	0.1	2
51	Liquid water: a necessary condition for all forms of life?. , 0, , 205-217.		2
52	A Water Molecule Triggers Guest Exchange at a Mono-Zinc Centre Confined in a Biomimetic Calixarene Pocket: a Model for Understanding Ligand Stability in Zn Proteins. <i>Chemistry - A European Journal</i> , 2021, 27, 13730-13738.	1.7	2
53	A Water Molecule Triggers Guest Exchange at a Mono-Zinc Centre Confined in a Biomimetic Calixarene Pocket: a Model for Understanding Ligand Stability in Zn Proteins. <i>Chemistry - A European Journal</i> , 2021, 27, 13663.	1.7	1