Kristin Bartik

List of Publications by Year in descending order

53 papers	1,687 citations	304743 22 h-index	289244 40 g-index
58 all docs	58 docs citations	58 times ranked	2203 citing authors

#	Article	IF	Citations
1	129Xe and1H NMR Study of the Reversible Trapping of Xenon by Cryptophane-A in Organic Solution. Journal of the American Chemical Society, 1998, 120, 784-791.	13.7	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. Chemistry - A European Journal, 2013, 19, 2848-2858.	3.3	134
3	Topsentins, new toxic bis-indole alkaloids from the marine sponge Topsentiagenitrix. Canadian Journal of Chemistry, 1987, 65, 2118-2121.	1.1	109
4	NMR study of the reversible complexation of xenon by cucurbituril. Perkin Transactions II RSC, 2001, , 804-807.	1.1	78
5	Aromatic–Carbohydrate Interactions: An NMR and Computational Study of Model Systems. Chemistry - A European Journal, 2008, 14, 7570-7578.	3.3	75
6	UV–Vis and NMR study of the formation of gold nanoparticles by citrate reduction: Observation of gold–citrate aggregates. Journal of Colloid and Interface Science, 2013, 399, 1-5.	9.4	75
7	Astrobiology and the Possibility of Life on Earth and Elsewhere…. Space Science Reviews, 2017, 209, 1-42.	8.1	66
8	NMR Investigation of the complexation of neutral guests by cucurbituril. Perkin Transactions II RSC, 2001, , 2104-2107.	1.1	63
9	Fluorinated Bambusurils as Highly Effective and Selective Transmembrane Cl^-/HCO3^- Antiporters. CheM, 2019, 5, 429-444.	11.7	63
10	Probing Molecular Cavities in α-Cyclodextrin Solutions by Xenon NMR. Journal of Magnetic Resonance Series B, 1995, 109, 164-168.	1.6	59
11	Probing Proteins in Solution by 129Xe NMR Spectroscopy. Journal of Magnetic Resonance, 2001, 150, 167-174.	2.1	54
12	Structural characterization of the papaya cysteine proteinases at low pH. Biochemical and Biophysical Research Communications, 2006, 341, 620-626.	2.1	50
13	Rapid and Selective Detection of Proteins by Dual Trapping Using Gold Nanoparticles Functionalized with Peptide Aptamers. ACS Sensors, 2016, 1, 929-933.	7.8	50
14	Efficient Vanadium–Catalyzed Aerobic C^-C Bond Oxidative Cleavage of Vicinal Diols. Advanced Synthesis and Catalysis, 2018, 360, 3286-3296.	4.3	38
15	Fluorescent Chemosensors for Anions and Contact Ion Pairs with a Cavity-Based Selectivity. Journal of Organic Chemistry, 2014, 79, 6179-6188.	3.2	37
16	Amino acid induced fractal aggregation of gold nanoparticles: Why and how. Journal of Colloid and Interface Science, 2016, 464, 160-166.	9.4	37
17	Repositioning Chloride Transmembrane Transporters: Transport of Organic Ion Pairs. Angewandte Chemie - International Edition, 2019, 58, 6921-6925.	13.8	30
18	Fluoride Binding in Water: A New Environment for a Known Receptor. ChemPhysChem, 2008, 9, 2168-2171.	2.1	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. Origins of Life and Evolution of Biospheres, 2010, 40, 137-143.	1.9	28
20	A comprehensive study to protein retention in hydrophobic interaction chromatography. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2016, 1032, 182-188.	2.3	27
21	Group Contribution Analysis of Xenon NMR Solvent Shifts. Journal of Physical Chemistry A, 1997, 101, 5278-5283.	2.5	26
22	Comparison of the Thermodynamics and Base-Pair Dynamics of a Full LNA:DNA Duplex and of the Isosequential DNA:DNA Duplex. Biochemistry, 2009, 48, 8473-8482.	2.5	22
23	Do Serine Octamers Exist in Solution? Relevance of this Question in the Context of the Origin of Homochirality on Earth. European Journal of Organic Chemistry, 2006, 2006, 3069-3073.	2.4	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. New Journal of Chemistry, 2003, 27, 748-751.	2.8	20
25	Colorimetric and fluorescence â€œturn-onâ€•recognition of fluoride by a maleonitrile-based uranyl salen-complex. Dyes and Pigments, 2016, 135, 94-101.	3.7	20
26	Monitoring Fluoride Binding in DMSO: Why is a Singular Binding Behavior Observed?. European Journal of Organic Chemistry, 2012, 2012, 3570-3574.	2.4	19
27	Novel Method for the Measurement of Xenon Gas Solubility Using129Xe NMR Spectroscopy. Journal of Physical Chemistry A, 2006, 110, 10770-10776.	2.5	18
28	1H-NMR analysis of turkey egg-white lysozyme and comparison with hen egg-white lysozyme. FEBS Journal, 1993, 215, 255-266.	0.2	17
29	Pulsed Sonochemistry. Journal of Physical Chemistry A, 1998, 102, 9177-9182.	2.5	17
30	Can Monoatomic Xenon Become Chiral?. ChemPhysChem, 2000, 1, 221-224.	2.1	17
31	Calix[6]arenes with halogen bond donor groups as selective and efficient anion transporters. Chemical Communications, 2022, 58, 6255-6258.	4.1	16
32	Prebiotic chemistry: A fuzzy field. Comptes Rendus Chimie, 2011, 14, 388-391.	0.5	15
33	Primary amine recognition in water by a calix[6]aza-cryptand incorporated in dodecylphosphocholine micelles. Organic and Biomolecular Chemistry, 2015, 13, 2931-2938.	2.8	15
34	Fluoride binding in water with the use of micellar nanodevices based on salophen complexes. Organic and Biomolecular Chemistry, 2015, 13, 2437-2443.	2.8	14
35	Study by 23Na-NMR, 1H-NMR, and Ultraviolet Spectroscopy of the Thermal Stability of an 11-Basepair Oligonucleotide. Biophysical Journal, 2000, 78, 1059-1069.	0.5	13
36	Molecular polarization and molecular chiralization: The first example of a chiralized xenon atom. Chirality, 2001, 13, 2-6.	2.6	13

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37	A selective calix[6]arene-based fluorescent chemosensor for phosphatidylcholine type lipids. Organic and Biomolecular Chemistry, 2016, 14, 10201-10207.	2.8	11
38	Specific Binding of Primary Ammonium Ions and Lysine-Containing Peptides in Protic Solvents by Hexahomotrioxacalix[3]arenes. Journal of Organic Chemistry, 2020, 85, 10062-10071.	3.2	11
39	The Potential of 129Xe NMR Relaxation Measurements for the Study of Heme Proteins. ChemPhysChem, 2002, 3, 812-814.	2.1	10
40	Submerging a Biomimetic Metalloâ€Receptor in Water for Molecular Recognition: Micellar Incorporation or Water Solubilization? A Case Study. Chemistry - A European Journal, 2018, 24, 17964-17974.	3.3	10
41	A method for the estimation of ?1 torsion angles in proteins. Journal of Biomolecular NMR, 1993, 3, 415.	2.8	9
42	The Potential of the Xenon â€œSpin-Spyâ€•Methodology for the Study of Configurational Equilibria in Solution. ChemPhysChem, 2003, 4, 305-308.	2.1	9
43	Paramagnetic Relaxation Enhancement Experiments: A Valuable Tool for the Characterization of Micellar Nanodevices. Journal of Physical Chemistry B, 2013, 117, 11654-11659.	2.6	9
44	Protonation linked equilibria and apparent affinity constants: the thermodynamic profile of the Î±-chymotrypsinâ€“proflavin interaction. European Biophysics Journal, 2007, 37, 11-18.	2.2	8
45	The search for a deterministic origin for the presence of nonracemic aminoâ€acids in meteorites: A computational approach. Chirality, 2011, 23, 367-373.	2.6	8
46	Probing polymer colloids by 129Xe NMR. Journal of Colloid and Interface Science, 2009, 330, 344-351.	9.4	7
47	Developments in the Characterisation of the Catalytic Triad of Î±-Chymotrypsin: Effect of the Protonation State of Asp102 on the1H NMR Signals of His57. ChemBioChem, 2007, 8, 51-54.	2.6	6
48	DNA-Promoted Auto-Assembly of Gold Nanoparticles: Effect of the DNA Sequence on the Stability of the Assemblies. Polymers, 2013, 5, 1041-1055.	4.5	5
49	Repositioning Chloride Transmembrane Transporters: Transport of Organic Ion Pairs. Angewandte Chemie, 2019, 131, 6995-6999.	2.0	5
50	Xenon NMR as a Probe for Microporous and Mesoporous Solids, Polymers, Liquid Crystals, Solutions, Flames, Proteins, Imaging. ChemInform, 2006, 37, no.	0.0	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 Monoâ€Zinc Centre Confined in a Biomimetic Calixarene Pocket: a Model for Understanding Ligand Stability in Zn Proteins. Chemistry - A European Journal, 2021, 27, 13730-13738.	3.3	2
53	A Water Molecule Triggers Guest Exchange at a Monoâ€Zinc Centre Confined in a Biomimetic Calixarene Pocket: a Model for Understanding Ligand Stability in Zn Proteins. Chemistry - A European Journal, 2021, 27, 13663.	3.3	1