

Vladimir A Azov

List of Publications by Year in descending order

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56
papers

1,807
citations

279798

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all docs

64
docs citations

64
times ranked

2162
citing authors

#	ARTICLE	IF	CITATIONS
1	LASER IONIZATION MASS SPECTROMETRY AT 55: QUO VADIS?. <i>Mass Spectrometry Reviews</i> , 2022, 41, 100-151.	5.4	16
2	Lower- ϵ -Modified Calix[4]arene- ϵ -Pyrrolotetrathiafulvalene Molecular Tweezers. <i>European Journal of Organic Chemistry</i> , 2021, 2021, 4469-4476.	2.4	5
3	Direct functionalization of C-H bonds by electrophilic anions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 23374-23379.	7.1	21
4	New Perspectives in the Noble Gas Chemistry Opened by Electrophilic Anions. <i>Frontiers in Chemistry</i> , 2020, 8, 580295.	3.6	6
5	Molecular Insights into the Ligand-Reactant Interactions of Pt Nanoparticles Functionalized with β -Amino Acids as Asymmetric Catalysts for α -Keto Esters. <i>ChemCatChem</i> , 2019, 11, 2732-2742.	3.7	8
6	Rational design of an argon-binding superelectrophilic anion. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 8167-8172.	7.1	69
7	Photoelectron spectroscopy of [MoX ₄] ²⁻ dianions (X = Cl, I). <i>Journal of Chemical Physics</i> , 2019, 151, 194310.	3.0	3
8	ϵ -Solvent-in-salt systems for design of new materials in chemistry, biology and energy research. <i>Chemical Society Reviews</i> , 2018, 47, 1250-1284.	38.1	151
9	Comparison of computationally cheap methods for providing insight into the crystal packing of highly bromomethylated azobenzenes. <i>Acta Crystallographica Section C, Structural Chemistry</i> , 2018, 74, 1692-1702.	0.5	4
10	Ligand-functionalized Pt nanoparticles as asymmetric heterogeneous catalysts: molecular reaction control by ligand- ϵ -reactant interactions. <i>Catalysis Science and Technology</i> , 2018, 8, 6062-6075.	4.1	19
11	Functional molecular architectures based on tetrathiafulvalene building blocks. <i>Phosphorus, Sulfur and Silicon and the Related Elements</i> , 2017, 192, 175-179.	1.6	1
12	Asymmetric Heterogeneous Catalysis: Transfer of Molecular Principles to Nanoparticles by Ligand Functionalization. <i>ACS Catalysis</i> , 2017, 7, 3979-3987.	11.2	54
13	Titelbild: Superelektrophiles Verhalten eines Anions demonstriert durch spontane Bindung von Edelgasen an [B ₁₂ Cl ₁₁] ⁻ (Angew. Chem. 27/2017). <i>Angewandte Chemie</i> , 2017, 129, 7789-7789.	2.0	0
14	Superelectrophilic Behavior of an Anion Demonstrated by the Spontaneous Binding of Noble Gases to [B ₁₂ Cl ₁₁] ⁻ . <i>Angewandte Chemie - International Edition</i> , 2017, 56, 7980-7985.	13.8	55
15	Superelektrophiles Verhalten eines Anions demonstriert durch spontane Bindung von Edelgasen an [B ₁₂ Cl ₁₁] ⁻ . <i>Angewandte Chemie</i> , 2017, 129, 8090-8096.	2.0	17
16	Evidence for an intrinsic binding force between dodecaborate dianions and receptors with hydrophobic binding pockets. <i>Chemical Communications</i> , 2016, 52, 6300-6303.	4.1	46
17	Recent advances in molecular recognition with tetrathiafulvalene-based receptors. <i>Tetrahedron Letters</i> , 2016, 57, 5416-5425.	1.4	22
18	Tuning of tetrathiafulvalene properties: versatile synthesis of <i>N</i> -arylated monopyrrolotetrathiafulvalenes via Ullmann-type coupling reactions. <i>Beilstein Journal of Organic Chemistry</i> , 2015, 11, 860-868.	2.2	5

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19	New insights into the old reaction between acryloyl chlorides and pyridine. <i>Tetrahedron Letters</i> , 2015, 56, 1124-1127.	1.4	6
20	Enhancement of electron-donating character in alkylated monopyrrolo-tetrathiafulvalene derivatives. <i>RSC Advances</i> , 2015, 5, 82633-82637.	3.6	10
21	Metastable oxidation states of tetrathiafulvalenes on the surface of liposomes. <i>Journal of Materials Chemistry B</i> , 2015, 3, 475-480.	5.8	7
22	Thermodynamic parameters of the pedal motion in the crystal structures of two bromomethylated azobenzenes. <i>CrystEngComm</i> , 2015, 17, 5751-5756.	2.6	5
23	Methacryloyl chloride dimers: from structure elucidation to manifold of chemical transformations. <i>Tetrahedron</i> , 2014, 70, 6515-6521.	1.9	13
24	Relative substituent orientation in the structure of <i>cis</i> -3-chloro-1,3-dimethyl-N-(4-nitrophenyl)-2-oxocyclopentane-1-carboxamide. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2014, 70, 121-123.	0.2	1
25	Tripodal pyrrolotetrathiafulvalene receptors for recognition of electron-deficient molecular guests. <i>Tetrahedron Letters</i> , 2014, 55, 741-744.	1.4	9
26	Light-Controlled Macrocyclization of Tetrathiafulvalene with Azobenzene: Designing an Optoelectronic Molecular Switch. <i>Journal of Organic Chemistry</i> , 2014, 79, 11714-11721.	3.2	20
27	Calix[4]arenes with 1,2- and 1,3-upper rim tetrathiafulvalene bridges. <i>Supramolecular Chemistry</i> , 2014, 26, 552-560.	1.2	9
28	A versatile synthetic strategy for nanoporous gold-organic hybrid materials for electrochemistry and photocatalysis. <i>Tetrahedron</i> , 2014, 70, 6127-6133.	1.9	14
29	Rationally Designed Calix[4]arene-Pyrrolotetrathiafulvalene Receptors for Electron-Deficient Neutral Guests. <i>Journal of Organic Chemistry</i> , 2013, 78, 4905-4912.	3.2	44
30	2-(1,3-Dithiol-2-ylidene)-1,3-dithiole-4-carbaldehyde. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2013, 69, o1157-o1157.	0.2	1
31	Secondary interactions in the crystal structures of three 1,2,4,5-tetrakis(bromomethyl)-3,6-bis(2-alkoxy)benzenes. <i>Journal of Molecular Structure</i> , 2012, 1016, 109-117.	3.6	4
32	Real-time, in vivo monitoring and pharmacokinetics of valproic acid via a novel biomarker in exhaled breath. <i>Chemical Communications</i> , 2011, 47, 4884.	4.1	58
33	Thione vs. ketone: The influence of the chalcogenide on weak intermolecular interactions in crystal packing of 4,5-bis(bromomethyl)-1,3-dithiole-2-thione and 4,5-bis(bromomethyl)-1,3-dithiol-2-one. <i>Journal of Molecular Structure</i> , 2011, 1004, 296-302.	3.6	3
34	Upper rim tetrathiafulvalene-bridged calix[4]arenes. <i>Tetrahedron Letters</i> , 2011, 52, 2881-2884.	1.4	26
35	5,11,17,23-Tetrakis(chloromethyl)-25,26,27,28-tetrapropoxycalix[4]arene. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2011, 67, o728-o729.	0.2	0
36	Synthesis of Novel Highly Soluble N-(3,5-Di-tert-butylbenzyl)-monopyrrolo-tetrathiafulvalene Derivatives. <i>Phosphorus, Sulfur and Silicon and the Related Elements</i> , 2011, 186, 1278-1283.	1.6	3

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37	2,3,6,7-Tetrakis(bromomethyl)naphthalene. Acta Crystallographica Section E: Structure Reports Online, 2010, 66, o1846-o1847.	0.2	1
38	Redox responsive molecular tweezers with tetrathiafulvalene units: synthesis, electrochemistry, and binding properties. Tetrahedron, 2009, 65, 10348-10354.	1.9	43
39	Synthesis of electrochemically responsive TTF-based molecular tweezers: evidence of tight intramolecular TTF pairing in solution. Tetrahedron, 2008, 64, 1909-1917.	1.9	43
40	DNA Photography: An Ultrasensitive DNA-Detection Method Based on Photographic Techniques. Angewandte Chemie - International Edition, 2007, 46, 4184-4187.	13.8	50
41	Functionalized Calix[4]resorcinarene Cavitands. Versatile Platforms for the Modular Construction of Extended Molecular Switches. Bulletin of the Chemical Society of Japan, 2006, 79, 1926-1940.	3.2	33
42	Conformational Behavior of Pyrazine-Bridged and Mixed-Bridged Cavitands: A General Model for Solvent Effects on Thermal "Vase-Kite" Switching. Chemistry - A European Journal, 2006, 12, 4775-4784.	3.3	75
43	Resorcin[4]arene Cavitand-Based Molecular Switches. Advanced Functional Materials, 2006, 16, 147-156.	14.9	92
44	Clear evidence of fluorescence resonance energy transfer in gas-phase ions. Journal of the American Society for Mass Spectrometry, 2005, 16, 1481-1487.	2.8	57
45	Geometrically Precisely Defined Multinanometer Expansion/Contraction Motions in a Resorcin[4]arene Cavitand Based Molecular Switch. Angewandte Chemie - International Edition, 2005, 44, 4635-4638.	13.8	91
46	Selective steroid recognition by a partially bridged resorcin[4]arene cavitand. Chemical Communications, 2005, , 5269.	4.1	17
47	Cyclophanes: Definition and Scope. , 2004, , 414-423.		5
48	NMR Investigations into the Vase-Kite Conformational Switching of Resorcin[4]arene Cavitands. Helvetica Chimica Acta, 2004, 87, 449-462.	1.6	71
49	Synthesis and Conformational Switching of Partially and Differentially Bridged Resorcin[4]arenes Bearing Fluorescent Dye Labels. Preliminary Communication. Helvetica Chimica Acta, 2003, 86, 2149-2155.	1.6	48
50	Functionalized and Partially or Differentially Bridged Resorcin[4]arene Cavitands: Synthesis and Solid-State Structures. Helvetica Chimica Acta, 2003, 86, 3648-3670.	1.6	41
51	Synthesis and Properties of Water-Soluble Asterisk Molecules. Journal of the American Chemical Society, 2002, 124, 11159-11166.	13.7	35
52	A 1,3,5-Triaxial Triaminocyclohexane: The Triamine Corresponding to Kemp's Triacid. Angewandte Chemie - International Edition, 2002, 41, 2581-2584.	13.8	37
53	Conventional and Gemini Surfactants Embedded within Bilayer Membranes: Contrasting Behavior. Chemistry - A European Journal, 2001, 7, 4835-4843.	3.3	20
54	Cytomimetic Modeling in Which One Phospholipid Liposome Chemically Attacks Another. Journal of the American Chemical Society, 2000, 122, 6492-6493.	13.7	16

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55	Gemini Surfactants with Acetylenic Spacers. Langmuir, 2000, 16, 2062-2067.	3.5	213
56	Substrate dependent intramolecular Pauson-Khand reaction of carbohydrate exo-methylene derivatives. Unexpected formation of fused α [4.1.0] bicycloheptene - pyranose β -tricyclic product. Tetrahedron Letters, 1996, 37, 1489-1492.	1.4	30