Vladimir A Azov

List of Publications by Year
in descending order

56	1,807	279798 23	276875 41
papers	citations	h-index	g-index

64	64	64	2162
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Gemini Surfactants with Acetylenic Spacers. Langmuir, 2000, 16, 2062-2067.	3.5	213
2	â€œSolvent-in-saltâ€•systems for design of new materials in chemistry, biology and energy research. Chemical Society Reviews, 2018, 47, 1250-1284.	38.1	151
3	Resorcin[4]arene Cavitand-Based Molecular Switches. Advanced Functional Materials, 2006, 16, 147-156.	14.9	92
4	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
5	Conformational Behavior of Pyrazine-Bridged and Mixed-Bridged Cavitands: A General Model for Solvent Effects on Thermal â€œVaseâ€“Kiteâ€•Switching. Chemistry - A European Journal, 2006, 12, 4775-4784.	3.3	75
6	NMR Investigations into theVase-Kite Conformational Switching of Resorcin[4]arene Cavitands. Helvetica Chimica Acta, 2004, 87, 449-462.	1.6	71
7	Rational design of an argon-binding superelectrophilic anion. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 8167-8172.	7.1	69
8	Real-time, in vivo monitoring and pharmacokinetics of valproic acid via a novel biomarker in exhaled breath. Chemical Communications, 2011, 47, 4884.	4.1	58
9	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
10	Superelectrophilic Behavior of an Anion Demonstrated by the Spontaneous Binding of Noble Gases to [B₁₂Cl₁₁]^{â^’}. Angewandte Chemie - International Edition, 2017, 56, 7980-7985.	13.8	55
11	Asymmetric Heterogeneous Catalysis: Transfer of Molecular Principles to Nanoparticles by Ligand Functionalization. ACS Catalysis, 2017, 7, 3979-3987.	11.2	54
12	DNA Photography: An Ultrasensitive DNA-Detection Method Based on Photographic Techniques. Angewandte Chemie - International Edition, 2007, 46, 4184-4187.	13.8	50
13	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
14	Evidence for an intrinsic binding force between dodecaborate dianions and receptors with hydrophobic binding pockets. Chemical Communications, 2016, 52, 6300-6303.	4.1	46
15	Rationally Designed Calix[4]areneâ€“Pyrrolotetrathiafulvalene Receptors for Electron-Deficient Neutral Guests. Journal of Organic Chemistry, 2013, 78, 4905-4912.	3.2	44
16	Synthesis of electrochemically responsive TTF-based molecular tweezers: evidence of tight intramolecular TTF pairing in solution. Tetrahedron, 2008, 64, 1909-1917.	1.9	43
17	Redox responsive molecular tweezers with tetrathiafulvalene units: synthesis, electrochemistry, and binding properties. Tetrahedron, 2009, 65, 10348-10354.	1.9	43
18	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

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19	A 1,3,5-Triaxial Triaminocyclohexane: The Triamine Corresponding to Kemp's Triacid. Angewandte Chemie - International Edition, 2002, 41, 2581-2584.	13.8	37
20	Synthesis and Properties of Water-Soluble Asterisk Molecules. Journal of the American Chemical Society, 2002, 124, 11159-11166.	13.7	35
21	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
22	Substrate dependent intramolecular Pauson-Khand reaction of carbohydrate exo-methylene derivatives. Unexpected formation of fused â€œ[4.1.0] bicycloheptene - pyranoseâ€•tricyclic product. Tetrahedron Letters, 1996, 37, 1489-1492.	1.4	30
23	Upper rim tetrathiafulvalene-bridged calix[4]arenes. Tetrahedron Letters, 2011, 52, 2881-2884.	1.4	26
24	Recent advances in molecular recognition with tetrathiafulvalene-based receptors. Tetrahedron Letters, 2016, 57, 5416-5425.	1.4	22
25	Direct functionalization of Câ^'H bonds by electrophilic anions. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 23374-23379.	7.1	21
26	Conventional and Gemini Surfactants Embedded within Bilayer Membranes: Contrasting Behavior. Chemistry - A European Journal, 2001, 7, 4835-4843.	3.3	20
27	Light-Controlled Macrocyclization of Tetrathiafulvalene with Azobenzene: Designing an Optoelectronic Molecular Switch. Journal of Organic Chemistry, 2014, 79, 11714-11721.	3.2	20
28	Ligand-functionalized Pt nanoparticles as asymmetric heterogeneous catalysts: molecular reaction control by ligandâ€“reactant interactions. Catalysis Science and Technology, 2018, 8, 6062-6075.	4.1	19
29	Selective steroid recognition by a partially bridged resorcin[4]arene cavitand. Chemical Communications, 2005, , 5269.	4.1	17
30	Superelektrophiles Verhalten eines Anions demonstriert durch spontane Bindung von Edelgasen an [B₁₂Cl₁₁]^{â^'}. Angewandte Chemie, 2017, 129, 8090-8096.	2.0	17
31	Cytomimetic Modeling in Which One Phospholipid Liposome Chemically Attacks Another. Journal of the American Chemical Society, 2000, 122, 6492-6493.	13.7	16
32	LASER IONIZATION MASS SPECTROMETRY AT 55: QUO VADIS?. Mass Spectrometry Reviews, 2022, 41, 100-151.	5.4	16
33	A versatile synthetic strategy for nanoporous goldâ€“organic hybrid materials for electrochemistry and photocatalysis. Tetrahedron, 2014, 70, 6127-6133.	1.9	14
34	Methacryloyl chloride dimers: from structure elucidation toÂaÂmanifold of chemical transformations. Tetrahedron, 2014, 70, 6515-6521.	1.9	13
35	Enhancement of electron-donating character in alkylated monopyrrolo-tetrathiafulvalene derivatives. RSC Advances, 2015, 5, 82633-82637.	3.6	10
36	Tripodal pyrrolotetrathiafulvalene receptors for recognition of electron-deficient molecular guests. Tetrahedron Letters, 2014, 55, 741-744.	1.4	9

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37	Calix[4]arenes with 1,2- and 1,3-upper rim tetrathiafulvalene bridges. Supramolecular Chemistry, 2014, 26, 552-560.	1.2	9
38	Molecular Insights into the Ligandâ€Reactant Interactions of Pt Nanoparticles Functionalized with Î±â€Amino Acids as Asymmetric Catalysts for Î²â€Keto Esters. ChemCatChem, 2019, 11, 2732-2742.	3.7	8
39	Metastable oxidation states of tetrathiafulvalenes on the surface of liposomes. Journal of Materials Chemistry B, 2015, 3, 475-480.	5.8	7
40	New insights into the old reaction between acryloyl chlorides and pyridine. Tetrahedron Letters, 2015, 56, 1124-1127.	1.4	6
41	New Perspectives in the Noble Gas Chemistry Opened by Electrophilic Anions. Frontiers in Chemistry, 2020, 8, 580295.	3.6	6
42	Cyclophanes: Definition and Scope. , 2004, , 414-423.		5
43	Tuning of tetrathiafulvalene properties: versatile synthesis of N-arylated monopyrrolotetrathiafulvalenes via Ullmann-type coupling reactions. Beilstein Journal of Organic Chemistry, 2015, 11, 860-868.	2.2	5
44	Thermodynamic parameters of the pedal motion in the crystal structures of two bromomethylated azobenzenes. CrystEngComm, 2015, 17, 5751-5756.	2.6	5
45	Lowerâ€Rimâ€Modified Calix[4]areneâ€Pyrrolotetrathiafulvalene Molecular Tweezers. European Journal of Organic Chemistry, 2021, 2021, 4469-4476.	2.4	5
46	Secondary interactions in the crystal structures of three 1,2,4,5-tetrakis(bromomethyl)-3,6-bis(2-alkoxy)benzenes. Journal of Molecular Structure, 2012, 1016, 109-117.	3.6	4
47	Comparison of computationally cheap methods for providing insight into the crystal packing of highly bromomethylated azobenzenes. Acta Crystallographica Section C, Structural Chemistry, 2018, 74, 1692-1702.	0.5	4
48	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. Journal of Molecular Structure, 2011, 1004, 296-302.	3.6	3
49	Synthesis of Novel Highly Soluble N-(3,5-Di-tert-butylbenzyl)-monopyrrolo-tetrathiafulvalene Derivatives. Phosphorus, Sulfur and Silicon and the Related Elements, 2011, 186, 1278-1283.	1.6	3
50	Photoelectron spectroscopy of [Mo6X14]2â^' dianions (X = Clâ€“I). Journal of Chemical Physics, 2019, 151, 194310.	3.0	3
51	2,3,6,7-Tetrakis(bromomethyl)naphthalene. Acta Crystallographica Section E: Structure Reports Online, 2010, 66, o1846-o1847.	0.2	1
52	2-(1,3-Dithiol-2-ylidene)-1,3-dithiole-4-carbaldehyde. Acta Crystallographica Section E: Structure Reports Online, 2013, 69, o1157-o1157.	0.2	1
53	Relative substituent orientation in the structure ofcis-3-chloro-1,3-dimethyl-N-(4-nitrophenyl)-2-oxocyclopentane-1-carboxamide. Acta Crystallographica Section E: Structure Reports Online, 2014, 70, 121-123.	0.2	1
54	Functional molecular architectures based on tetrathiafulvalene building blocks. Phosphorus, Sulfur and Silicon and the Related Elements, 2017, 192, 175-179.	1.6	1

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55	5,11,17,23-Tetrakis(chloromethyl)-25,26,27,28-tetrapropoxycalix[4]arene. Acta Crystallographica Section E: Structure Reports Online, 2011, 67, o728-o729.	0.2	0
56	Titelbild: Superelektrophiles Verhalten eines Anions demonstriert durch spontane Bindung von Edelgasen an [B₁₂Cl₁₁]^â (Angew. Chem. 27/2017). Angewandte Chemie, 2017, 129, 7789-7789.	2.0	0