

Hrvoj VanÄik

List of Publications by Year in descending order

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52
papers

614
citations

687363

13
h-index

642732

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58
all docs

58
docs citations

58
times ranked

433
citing authors

#	ARTICLE	IF	CITATIONS
1	Chloromethyl cations in cryogenic antimony pentafluoride matrixes and the generation of carbocations from hydrocarbons. <i>Journal of the American Chemical Society</i> , 1990, 112, 7418-7419.	13.7	61
2	Mechanosynthesis of nitrosobenzenes: a proof-of-principle study in combining solvent-free synthesis with solvent-free separations. <i>Green Chemistry</i> , 2012, 14, 1597.	9.0	50
3	Solid-state chemistry in antimony pentafluoride matrixes. Infrared spectra of reactive intermediates. <i>Journal of the American Chemical Society</i> , 1989, 111, 3742-3744.	13.7	43
4	Generation of the Parent Allyl Cation in a Superacid Cryogenic Matrix. <i>Angewandte Chemie International Edition in English</i> , 1994, 33, 448-451.	4.4	43
5	Aromatic C-nitroso Compounds. , 2013, , .		41
6	The Nature of the 7-Norbornyl Cation and its Rearrangement into the 2-Norbornyl Cation. <i>Angewandte Chemie International Edition in English</i> , 1993, 32, 1604-1606.	4.4	39
7	Dimethylsilylene: trisilane and a geminal diazide as new photochemical precursors. Evidence for an absorption maximum near 450 nm. <i>Journal of the American Chemical Society</i> , 1985, 107, 4097-4098.	13.7	35
8	Solid-State Reaction Mechanisms in Monomer \rightleftharpoons Dimer Interconversions of p-Bromonitrosobenzene. Single-Crystal-to-Single-Crystal Photodissociation and Formation of New Non-van der Waals Close Contacts. <i>Journal of Organic Chemistry</i> , 2005, 70, 8461-8467.	3.2	33
9	Cross-dimerization of nitrosobenzenes in solution and in solid state. <i>Journal of Molecular Structure</i> , 2009, 918, 19-25.	3.6	25
10	Nitrosobenzene Dimerizations as a Model System for Studying Solid-State Reaction Mechanisms. <i>Journal of Organic Chemistry</i> , 2004, 69, 4829-4834.	3.2	19
11	Crystal disordering and organic solid-state reactions. <i>CrystEngComm</i> , 2015, 17, 1434-1438.	2.6	18
12	The 7-norbornyl cation. Structure and interactions. <i>Journal of the American Chemical Society</i> , 1983, 105, 5364-5368.	13.7	15
13	Photothermal Reactions of Nitrosobenzene and Halonitrosobenzenes in Solid-state. <i>Croatica Chemica Acta</i> , 0, , 21-24.	0.4	14
14	Die Struktur des 7-Norbornyl-Kations und seine Umlagerung in das 2-Norbornyl-Kation. <i>Angewandte Chemie</i> , 1993, 105, 1673-1675.	2.0	13
15	IR Matrix Spectroscopy of Pentachlorocyclopentadienyl Cation C ₅ Cl ₅ ⁺ . Effect of Chlorine as a Substituent. <i>Journal of Physical Chemistry A</i> , 1997, 101, 1523-1525.	2.5	13
16	Nitrosobenzene cross-dimerization: Structural selectivity in solution and in solid state. <i>Journal of Molecular Structure</i> , 2010, 979, 22-26.	3.6	13
17	Structure and topochemistry of azodioxide oligomers in solid state. <i>Journal of Molecular Structure</i> , 2016, 1104, 85-90.	3.6	11
18	Aromatic C-Nitroso Compounds and Their Dimers: A Model for Probing the Reaction Mechanisms in Crystalline Molecular Solids. <i>Crystals</i> , 2017, 7, 376.	2.2	11

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19	Surface nucleation in solid-state dimerisation of nitrosobenzenes promoted by sublimation. <i>CrystEngComm</i> , 2011, 13, 4307.	2.6	10
20	Ultrafast Adiabatic Photodehydration of 2-Hydroxymethylphenol and the Formation of Quinone Methide. <i>Chemistry - A European Journal</i> , 2018, 24, 9426-9435.	3.3	10
21	Quantum Chemical Calculations of Monomer-Dimer Equilibria of Aromatic <i>C</i> -Nitroso Compounds. <i>Journal of Physical Chemistry A</i> , 2018, 122, 2542-2549.	2.5	8
22	Solution equilibria of aromatic dinitroso compounds: a combined NMR and DFT study. <i>Structural Chemistry</i> , 2018, 29, 1489-1497.	2.0	8
23	Crystal structure and ON-OFF polymerization mechanism of poly(1,4-phenyleneazine-N,N-dioxide), a possible wide bandgap semiconductor. <i>Polymer</i> , 2021, 214, 123235.	3.8	8
24	Polymerization of 1,4-dinitrosobenzene: Kinetics and Submicrocrystal Structure. <i>Croatica Chemica Acta</i> , 2017, 90, .	0.4	8
25	Opus Magnum: An Outline for the Philosophy of Chemistry. <i>Foundations of Chemistry</i> , 1999, 1, 239-254.	1.1	7
26	Dimerization of Nitrosobenzene Derivatives on an Au(111) Surface. <i>Journal of Physical Chemistry C</i> , 2011, 115, 20267-20273.	3.1	7
27	Nitrosoarene Dimerization on Two- and Three-dimensional Gold Surfaces. <i>Croatica Chemica Acta</i> , 2013, 86, 83-94.	0.4	7
28	Isothermal and Isoconversional Modeling of Solid-State Nitroso Polymerization. <i>Journal of Physical Chemistry A</i> , 2020, 124, 10726-10735.	2.5	7
29	Reaction of Trimethylsilylacetylenes with Antimony Pentafluoride under Matrix Isolation Conditions: Experimental and Computational Study. <i>Journal of Organic Chemistry</i> , 2010, 75, 6969-6972.	3.2	5
30	Mechanochemically induced cross-dimerizations of nitrosobenzenes. Kinetics and solid-state isotope effects. <i>Journal of Physical Organic Chemistry</i> , 2014, 27, 177-182.	1.9	5
31	Thermally-Induced Reactions of Aromatic Crystalline Nitroso Compounds. <i>ChemistrySelect</i> , 2019, 4, 4709-4717.	1.5	5
32	Topochemical effect in thermal <i>E</i> - <i>Z</i> isomerization of azodioxides in solid state. <i>Journal of Physical Organic Chemistry</i> , 2016, 29, 214-220.	1.9	4
33	Modulating electronic properties of dinitrosoarene polymers. <i>Journal of Materials Chemistry C</i> , 2022, 10, 5433-5446.	5.5	4
34	5-Chloro-6-nitroso-2-norbornene dimer as a motif for supramolecular assembly. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2001, 57, o218-o219.	0.2	3
35	Oxime rearrangements: ab initio calculations and reactions in the solid state. <i>Perkin Transactions II RSC</i> , 2002, , 2154-2158.	1.1	2
36	Philosophy of Chemistry and Limits of Complexity. <i>Foundations of Chemistry</i> , 2003, 5, 237-247.	1.1	2

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37	An Old Story in New Light: X-Ray Powder Diffraction Provides Novel Insights into a Long-Known Organic Solid-State Rearrangement Reaction. <i>Croatica Chemica Acta</i> , 2013, 86, 187-192.	0.4	2
38	Insights into the self-assembly of aromatic dinitroso derivatives on gold surface. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2018, 552, 110-117.	4.7	2
39	Photoelectron spectrum of tetraiodosilane. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 1981, 24, 289-292.	1.7	0
40	Molecular Properties and Spectroscopy. , 2013, , 37-119.		0
41	Mechanochemically Induced Anion Exchange in Aminoazobenzene Salts. <i>Croatica Chemica Acta</i> , 2014, 87, 407-412.	0.4	0
42	Systematization, Classification, Structure, and Elements. <i>Integrated Science</i> , 2021, , 79-102.	0.2	0
43	Models and Reality. <i>Integrated Science</i> , 2021, , 103-116.	0.2	0
44	Occult Enlightenment. <i>Integrated Science</i> , 2021, , 47-54.	0.2	0
45	Atoms and Molecules. <i>Integrated Science</i> , 2021, , 73-78.	0.2	0
46	Teleology. <i>Integrated Science</i> , 2021, , 139-142.	0.2	0
47	Limits of Structural Theory. <i>Integrated Science</i> , 2021, , 117-137.	0.2	0
48	Conceptualization of Science and Experimental Model Systems. <i>Integrated Science</i> , 2021, , 55-58.	0.2	0
49	Ceteris Paribus. <i>Integrated Science</i> , 2021, , 59-61.	0.2	0
50	Alchemy. <i>Integrated Science</i> , 2021, , 39-45.	0.2	0
51	Chemistry and Philosophy of Science. <i>Integrated Science</i> , 2021, , 1-18.	0.2	0
52	Experimental and Theoretical IR Spectra of 2-Nitrosopyridines. <i>Croatica Chemica Acta</i> , 2021, 93, .	0.4	0