Sergey Aldoshin

List of Publications by Citations

321 papers	1,837 citations	19 h-index	26 g-index
341 ext. papers	2,224 ext. citations	1.8 avg, IF	4.79 L-index

#	Paper	IF	Citations
321	Light or Heat: What Is Killing Lead Halide Perovskites under Solar Cell Operation Conditions?. *Journal of Physical Chemistry Letters*, **2020**, 11, 333-339	6.4	54
320	Single-Ion Magnet EtN[Co(hfac)] with Nonuniaxial Anisotropy: Synthesis, Experimental Characterization, and Theoretical Modeling. *Inorganic Chemistry*, **2016**, 55, 9696-9706	5.1	53
319	Structure and properties of iron nitrosyl complexes with functionalized sulfur-containing ligands. *Russian Chemical Bulletin*, **2011**, 60, 1223-1251	1.7	37
318	Preparation, structure, and main properties of bimolecular crystals CL-20DNP and CL-20DNG. *Russian Chemical Bulletin*, **2015**, 64, 366-374	1.7	34
317	Synthesis, Structure and Solid-Phase Transformations of Fe Nitrosyl Complex Na2[Fe2(S2O3)2(NO)4] • 4H2O. *Russian Journal of Coordination Chemistry/Koordinatsionnaya Khimiya*, **2005**, 31, 301-306	1.6	34
316	Evidence of field induced slow magnetic relaxation in cis-[Co(hfac)(HO)] exhibiting tri-axial anisotropy with a negative axial component. *Dalton Transactions*, **2017**, 46, 7540-7548	4.3	33
315	Functional models of [FeS] nitrosyl proteins. *Russian Chemical Bulletin*, **2004**, 53, 2428-2448	1.7	31
314	Quantum entanglement and quantum discord in magnetoactive materials (Review Article). *Low Temperature Physics*, **2014**, 40, 3-16	0.7	30
313	Intrinsic thermal decomposition pathways of lead halide perovskites APbX3. *Solar Energy Materials and Solar Cells*, **2020**, 213, 110559	6.4	27
312	Nitrosyl iron complexes with enhanced NO donating ability: synthesis, structure and properties of a new type of salt with the DNIC cations [Fe(SC(NH2)2)2(NO)2]+. *New Journal of Chemistry*, **2015**, 39, 1022-1030	3.6	26
311	Synthesis and X-ray and Spectral Study of the Compounds [Q4N]2[Fe2(S2O3)2(NO)4] (Q = Me, Et, n-Pr, n-Bu). *Russian Journal of Coordination Chemistry/Koordinatsionnaya Khimiya*, **2001**, 27, 179-183	1.6	26
310	Phenazineoxonium chloranilatomanganate and chloranilatoferrate: synthesis, structure, magnetic properties, and Mössbauer spectra. *Russian Chemical Bulletin*, **2011**, 60, 1209-1219	1.7	25
309	Synthesis, structure, and photoisomerization of derivatives of 2-(2-quinolyl)-1,3-tropolones prepared by the condensation of 2-methylquinolines with 3,4,5,6-tetrachloro-1,2-benzoquinone. *Tetrahedron*, **2010**, 66, 8763-8771	2.4	24
308	[Fe2(ESC5H4N)2(NO)4] as a New Potential NO Donor: Synthesis, Structure, and Properties. *Russian Journal of Coordination Chemistry/Koordinatsionnaya Khimiya*, **2002**, 28, 341-345	1.6	22
307	Crystal structure of cocrystals 2,4,6,8,10,12-hexanitro-2,4,6,8,10,12-hexaazatetracyclo [5.5.0.05.9.03.11]dodecane with 7H-tris-1,2,5-oxadiazolo (3,4-b:3?,4?-d:3?,4?-f) azepine. *Journal of Structural Chemistry*, **2014**, 55, 327-331	0.9	21
306	Concomitant Photochemical and Phase Rearrangements 2. Luminescent and X-Ray Studies on Photochemistry of Cis- and Trans-1,2-Di-(1 -Naphthyl)ethylenes in the Crystalline State. *Molecular Crystals and Liquid Crystals*, **1984**, 108, 1-17		21
305	Structure and properties of 2-S-[bis(benzenethiolato)tetranitrosyldiiron] in solution. *Russian Chemical Bulletin*, **2010**, 59, 1126-1136	1.7	20

304	New method for the synthesis of Ётropolones: Structures of condensation products of o-quinones with 2-methylquinolines and the mechanism of their formation. *Russian Chemical Bulletin*, **2006**, 55, 2032-2055	1.7	20
303	Bi-nuclear nitrosyl iron complex with 2-mercapto-imidazolyl: Synthesis, structure and magnetic properties. *Journal of Molecular Structure*, **2005**, 752, 110-114	3.4	20
302	Photochemistry of arylhydrazides in solution. *Russian Chemical Bulletin*, **2000**, 49, 666-668	1.7	19
301	Field-induced single-ion magnet behaviour of a hexacoordinated Co(ii) complex with easy-axis-type magnetic anisotropy. *Dalton Transactions*, **2019**, 48, 6960-6970	4.3	18
300	A new member of the cationic dinitrosyl iron complexes family incorporating N-ethylthiourea is effective against human HeLa and MCF-7 tumor cell lines. *Journal of Coordination Chemistry*, **2016**, 69, 812-825	1.6	18
299	Charge transfer and hydrogen bond energy in glycinium salts. *Russian Chemical Bulletin*, **2009**, 58, 31-40	1.7	18
298	Thermally-induced paramagnetism of spiropyrane iodides. *New Journal of Chemistry*, **2009**, 33, 1374	3.6	18
297	Energetic potential of solid composite propellants based on CL-20-containing bimolecular crystals. *Russian Chemical Bulletin*, **2016**, 65, 2018-2024	1.7	18
296	Influence of aromatic ligand on the redox activity of neutral binuclear tetranitrosyl iron complexes [Fe2(ЕSR)2(NO)4]: experiments and quantum-chemical modeling. *New Journal of Chemistry*, **2014**, 38, 292-301	3.6	17
295	New conformer of 2,4,6,8,10,12-hexanitro-2,4,6,8,10,12-hexaazaisowurtzitane (CL-20). Crystal and molecular structures of the CL-20 solvate with glyceryl triacetate. *Russian Chemical Bulletin*, **2011**, 60, 1394-1400	1.7	17
294	Photochemical generation of tripletЕtriplet nitrene pairs in aromatic diazide crystals. *Russian Chemical Bulletin*, **2008**, 57, 524-531	1.7	17
293	Molecular and electronic structure and IR spectra of mononuclear dinitrosyl iron complex Fe(SC2H3N3)(SC2H2N3)(NO)2]: a theoretical study. *Russian Chemical Bulletin*, **2007**, 56, 1289-1297	1.7	16
292	2-Hetaryl-1,3-tropolones based on five-membered nitrogen heterocycles: synthesis, structure and properties. *Beilstein Journal of Organic Chemistry*, **2015**, 11, 2179-88	2.5	15
291	Proton conductivity of calix[n]arene-para-sulfonic acids (n = 4, 8). *Russian Chemical Bulletin*, **2012**, 61, 1892-1899	1.7	15
290	A new crystalline HMX polymorph: e-HMX. *Russian Journal of Physical Chemistry B*, **2010**, 4, 934-941	1.2	15
289	Structure and properties of binuclear nitrosyl iron complex with benzimidazole-2-thiolyl. *Dalton Transactions*, **2009**, 1703-6	4.3	14
288	Quantum entanglement in nitrosyl iron complexes. *Journal of Experimental and Theoretical Physics*, **2008**, 107, 804-811	1	14
287	Synthesis, crystal structures, MЕssbauer spectra, and redox properties of binuclear and tetranuclear iron-sulfur nitrosyl clusters. *Russian Chemical Bulletin*, **2000**, 49, 444-451	1.7	14

286	The first photochromic bimetallic assemblies based on Mn(III) and Mn(II) Schiff-base (salpn, dapsc) complexes and pentacyanonitrosylferrate. *CrystEngComm*, **2015**, 17, 3866-3876	3.3	13
285	The structures of the dicationic tetranitrosyl iron complex with cysteamine [Fe2S2(CH2CH2NH3)2(NO)4]2+ and its decomposition products in protic media: an experimental and theoretical study. *Russian Chemical Bulletin*, **2012**, 61, 1-11	1.7	13
284	Structures of bis(1-methyltetrazole-5-thiolato)(tetranitrosyl)diiron and its intermediates in solutions. *Russian Journal of Coordination Chemistry/Koordinatsionnaya Khimiya*, **2010**, 36, 876-886	1.6	13
283	Heading to photoswitchable magnets. *Russian Chemical Bulletin*, **2008**, 57, 718-735	1.7	13
282	Visible to near-IR molecular switches based on photochromic indoline spiropyrans with a conjugated cationic fragment. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **2020**, 230, 118041	4.4	13
281	Incorporation of Vanadium(V) Oxide in Hybrid Hole Transport Layer Enables Long-term Operational Stability of Perovskite Solar Cells. *Journal of Physical Chemistry Letters*, **2020**, 11, 5563-5568	6.4	12
280	New Metal Chelates with Sterically Hindered Azo Ligands: Synthesis and Physicochemical Properties. *Russian Journal of Coordination Chemistry/Koordinatsionnaya Khimiya*, **2005**, 31, 533-540	1.6	12
279	Copper(II) Nitrate Complex with Acrylamide: Synthesis and Crystal Structure. *Russian Journal of Coordination Chemistry/Koordinatsionnaya Khimiya*, **2001**, 27, 735-737	1.6	12
278	A new class of nitric oxide donors. *Herald of the Russian Academy of Sciences*, **2016**, 86, 158-163	0.7	12
277	Some new trends in the design of single molecule magnets. *Pure and Applied Chemistry*, **2017**, 89, 1119-1143	2.4	11
276	Structure of a bimolecular crystal of 2,4,6,8,10,12-hexanitro-2,4,6,8,10,12-hexaazaisowurtzitane and methoxy-NNO-azoxymethane. *Journal of Structural Chemistry*, **2017**, 58, 113-118	0.9	11
275	Development of technological foundations of production of glass/polymer composite materials using tetrafluoroethylene oligomers (Telomers) as binders. *Doklady Chemistry*, **2013**, 449, 103-106	0.8	11
274	Potentional photomagnetic materials based on cation photochromic mononitrosyl complex of ruthenium. *European Physical Journal Special Topics*, **2004**, 114, 459-462		11
273	Photo- and thermochromic spiropyrans. 21. 8"-Formyl-3,6"-dimethyl-4-oxospiro(3,4-dihydro-2H-1,3-benzoxazine-2,2"-[2H]chromene) possessing photochromic properties in the solid phase. *Russian Chemical Bulletin*, **2002**, 51, 462-466	1.7	11
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267	Phase transformations of 2,4,6,8,10,12-hexanitrohexaazaisowurtzitane: the role played by water, dislocations, and density. *Russian Journal of Physical Chemistry B*, **2009**, 3, 486-493	1.2	10
266	Spiropyrans and spirooxazines. 2. Synthesis, structures, and photochromic properties of 6"-cyano-substituted spironaphthooxazines. *Russian Chemical Bulletin*, **2003**, 52, 2038-2047	1.7	10
265	[Bu4N]2[Fe2(□2O3)2(NO)4]: Synthesis, Structure, Redox Properties, and EPR Study. *Russian Journal of Coordination Chemistry/Koordinatsionnaya Khimiya*, **2001**, 27, 657-663	1.6	10
264	Film Deposition Techniques Impact the Defect Density and Photostability of MAPbI3 Perovskite Films. *Journal of Physical Chemistry C*, **2020**, 124, 21378-21385	3.8	10
263	Purely Spectroscopic Determination of the Spin Hamiltonian Parameters in High-Spin Six-Coordinated Cobalt(II) Complexes with Large Zero-Field Splitting. *Inorganic Chemistry*, **2019**, 58, 16434-16444	5.1	10
262	Synthesis and Structure of a New Polydentate 8-Hydroxyquinoline Ligand System with a 1,3-Tropolone Fragment at Position 2 in the Quinoline Ring. *Chemistry of Heterocyclic Compounds*, **2014**, 50, 828-837	1.4	9
261	Polymorphism of bimolecular crystals of CL-20 with tris[1,2,5]oxadiazolo[3,4-b:3′,4′-d:3?,4?-f]azepine-7-amine. *Russian Chemical Bulletin*, **2017**, 66, 694-701	1.7	9
260	Generation of quintet dinitrenes by low-temperature radiolysis of crystalline 2,4,6-triazido-3,5-dicyanopyridine. *Doklady Physical Chemistry*, **2008**, 418, 7-12	0.8	9
259	Experimental and theoretical studies of the structure and IR spectra of neutral diamagnetic binuclear iron nitrosyl complexes Fe2(μ-SC6□ H5□ Nn)2(NO)4 (n = 0, 1, 2). *Russian Chemical Bulletin*, **2006**, 55, 2133-2142	1.7	9
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257	Influence of the cation on the properties of binuclear iron nitrosyl complexes. Synthesis and crystal structure of [Pr4 nN]2[Fe2S2(NO)4]. *Russian Chemical Bulletin*, **2000**, 49, 1109-1112	1.7	9
256	Synthesis and reactivity of metal-containing monomers. *Russian Chemical Bulletin*, **1999**, 48, 1174-1177	1.7	9
255	Photochromism of novel [1]benzothien-2-yl fulgides. *Tetrahedron*, **2016**, 72, 5776-5782	2.4	8
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251	Synthesis and structure of asymmetric 2,4,6-triazidopyridines. *Chemistry of Heterocyclic Compounds*, **2011**, 47, 817-825	1.4	8

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249	Synthesis, structure, and NO-donor activity of bis(5-nitropyridine-2-thiolato)tetranitrosyliron. *Russian Journal of Coordination Chemistry/Koordinatsionnaya Khimiya*, **2012**, 38, 671-682	1.6	7
248	The nature of chemical bonding in nitramide. *Russian Chemical Bulletin*, **2011**, 60, 2161-2174	1.7	7
247	Synthesis, structure, and NO-donor activity of the paramagnetic complex [Fe2(SC3H5N2)2(NO)4] as a model of nitrosyl [2FE-2S] proteins. *Russian Chemical Bulletin*, **2007**, 56, 28-34	1.7	7
246	Hemoglobin-stabilized tetranitrosyl binuclear iron complex with pyridine-2-yl in aqueous solutions. *Russian Chemical Bulletin*, **2007**, 56, 761-766	1.7	7
245	Photo-and thermochromic spiranes. 29. New photochromic indolinospiropyrans containing a quinoline fragment. *Chemistry of Heterocyclic Compounds*, **2007**, 43, 576-586	1.4	7
244	Photo-and thermochromic properties of 1?,3?,3?-trimethyl-6-nitro-8-pyridiniomethylspiro[2H-[1]benzopyran-2,2?-indoline] chloride in the crystalline state. *Russian Chemical Bulletin*, **2006**, 55, 1605-1611	1.7	7
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241	Synthesis, structure and photochromic properties of indoline spiropyrans with electron-withdrawing substituents. *Journal of Molecular Structure*, **2021**, 1229, 129615	3.4	7
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239	A parametric two-mode vibronic model of a dimeric mixed-valence cell for molecular quantum cellular automata and computational verification. *Physical Chemistry Chemical Physics*, **2020**, 22, 25982-25999	3.6	6
238	Molecule Based Materials for Quantum Cellular Automata: A Short Overview and Challenging Problems. *Israel Journal of Chemistry*, **2020**, 60, 527-543	3.4	6
237	Theoretical Modeling of the Magnetic Behavior of Thiacalix[4]arene Tetranuclear Mn(II)2Gd(III)2 and Co(II)2Eu(III)2 Complexes. *Inorganic Chemistry*, **2016**, 55, 3566-75	5.1	6
236	Synthesis and properties of polyvinylpyrrolidone films containing iron nitrosyl complexes as nitric oxide (NO) donors with antitumor and antiseptic activities. *Russian Chemical Bulletin*, **2015**, 64, 1616-1622	1.7	6
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234	Magnetic exchange coupling in transition metal complexes with bidentate bridging ligands: a quantum chemical study. *Russian Chemical Bulletin*, **2011**, 60, 1040-1044	1.7	6
233	3,5-Di-tert-butyl-1,2-benzoquinone in the synthesis of quinolino[4,5-bc][1,5]benzoxazepines, aminophenols, and phenoxazines. *Russian Journal of Organic Chemistry*, **2009**, 45, 442-448	0.7	6

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230	Materials for bipolar plates for proton-conducting membrane fuel cells. *Russian Journal of General Chemistry*, **2007**, 77, 752-765	0.7	6
229	Specific spectral properties of a photochromic ferromagnetic (C25H23N3O3Cl)CrMn(C2O4)3•H2O. *Russian Chemical Bulletin*, **2007**, 56, 1095-1102	1.7	6
228	Synthesis, structure, and the photomagnetic effect in crystals of 1,3,3,7?-tetramethylspiro[indoline-2,2?-2H-pyrano[3,2-f]quinolinium] tris(oxalato)chromate(III). *Russian Chemical Bulletin*, **2008**, 57, 2495-2505	1.7	6
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225	Synthesis and properties of photoacylotropic (2Z)-2-(N-acyl-N-arylaminomethylidene)benzo[b]thiophen-3(2H)-ones with a chiral migrating group. *Russian Chemical Bulletin*, **2005**, 54, 2783-2789	1.7	6
224	Effect of the Structure of a ProtonHydrate System of Hydrogen Bonds on the Protonic Conductivity in Crystals of the Flavianic Acid Hydroxonium Salt. *Doklady Physical Chemistry*, **2001**, 376, 27-30	0.8	6
223	Structure and properties of a bimolecular crystal (2CL-20 + MNO). *Journal of Structural Chemistry*, **2016**, 57, 1613-1618	0.9	6
222	Vibrational smearing of the electron density as function of the strength and directionality of interatomic interactions: nonvalent interactions of a nitro group within an island-type crystal [Fe(NO)2(SC6H4NO2)]2. *Russian Chemical Bulletin*, **2016**, 65, 1473-1487	1.7	6
221	Synthesis and structure of 3-(tert-butyl)-10,10-dimethyl-10H-indolo[1,2-a]indoline-1,4-dione. *Doklady Chemistry*, **2015**, 460, 33-36	0.8	5
220	Studies of structure and photochromic properties of spiropyrans based on 4,6-diformyl-2-methylresorcinol. *Russian Chemical Bulletin*, **2015**, 64, 672-676	1.7	5
219	Molecular magnetic structures based on high-spin intermediates of low-temperature radiolysis of azido derivatives and possibilities of their use in undulator systems. *Russian Chemical Bulletin*, **2013**, 62, 255-264	1.7	5
218	Synthesis and structure of 3-arylamino-2-(quinolin-2-yl)tropones. *Russian Chemical Bulletin*, **2013**, 62, 480-491	1.7	5
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216	Bis(4-nitrobenzenethiolato)tetranitrosyldiiron: synthesis, structure, and pharmacological activity of a new nitric oxide (NO) donor. *Russian Chemical Bulletin*, **2017**, 66, 1706-1711	1.7	5
215	Quantum chemical modeling of possible reactions of mononuclear iron nitrosyl complex [Fe(SC(NH2)2)2(NO)2]ClH2O in an aqueous solution. *Russian Chemical Bulletin*, **2017**, 66, 1842-1846	1.7	5

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210	Synthesis and photochemical and magnetic properties of Cr, Mn, Fe, and Co complexes based on the 1-{(1?,3?,3?-trimethylspiro[2H-1-benzopyran-2,2?-indolin]-8-yl)methyl}pyridinium cation. *Russian Chemical Bulletin*, **2008**, 57, 1451-1460	1.7	5
209	The properties of quintet dinitrenes in 2,4,6-triazido-3,5-dichloropyridine crystals. *Russian Journal of Physical Chemistry A*, **2008**, 82, 1870-1877	0.7	5
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207	Synthesis and photochromic properties of 4-[2-(anthracen-9-yl)-5-methyloxazolyl] fulgide. *Russian Chemical Bulletin*, **2006**, 55, 101-105	1.7	5
206	Structure and photochromic properties of a single-crystalline spiro[indolinepyranopyridinium] salt. *Russian Chemical Bulletin*, **2005**, 54, 2113-2118	1.7	5
205	Photochromism of single crystals of arylhydrazide derivatives. *Russian Chemical Bulletin*, **2001**, 50, 2471-2472	1.7	5
204	Exploration of the double exchange in quantum cellular automata: proposal for a new class of cells. *Chemical Communications*, **2020**, 56, 10682-10685	5.8	5
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201	Highly sensitive and selective ammonia gas sensor based on FAPbCl3 lead halide perovskites. *Journal of Materials Chemistry C*, **2021**, 9, 2561-2568	7.1	5
200	Steric Heavy Atom Effect on Magnetic Anisotropy of Triplet Tribromophenyl Nitrenes. *Journal of Physical Chemistry A*, **2018**, 122, 8931-8937	2.8	5
199	Quantum-chemical modeling of exchange coupling in the magnetic sublattice of bifunctional compounds containing heterometallic complexes of 3d and 4d metals with oxalate and dithiooxamide ligands. *Structural Chemistry*, **2017**, 28, 965-974	1.8	4
198	Features of the decomposition of the neutral nitrosyl iron complexes with aryl-containing thiolate ligands in various solvents. Reaction with glutathione. *Russian Chemical Bulletin*, **2017**, 66, 821-827	1.7	4
197	Spiropyrans and spirooxazines. *Russian Chemical Bulletin*, **2015**, 64, 677-682	1.7	4

196	Mixed-Valence Magnetic Molecular Cell for Quantum Cellular Automata: Prospects of Designing Multifunctional Devices through Exploration of Double Exchange. *Journal of Physical Chemistry C*, **2020**, 124, 25602-25614	3.8	4
195	Effect of polymorphic phase transitions on stability of energetic compounds. Thermal transformations of 2,4,6-tris(2,2,2-trinitroethylnitramino)-1,3,5-triazine. *Russian Chemical Bulletin*, **2020**, 69, 118-124	1.7	4
194	New Salt Spiropyran of Indoline Series with Fluorine Substituent. *Doklady Chemistry*, **2018**, 480, 81-84	0.8	4
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192	Anticancer Activity of Dinitrosyl Iron Complex (NO Donor) on the Multiple Myeloma Cells. *Doklady Biochemistry and Biophysics*, **2019**, 486, 238-242	0.8	4
191	One-step and one-pot method for synthesis of hybrid composite palladium-polypyrrole-carbon (Pd/PPy/C) nanomaterials. *Doklady Physical Chemistry*, **2013**, 449, 63-65	0.8	4
190	Synthesis, structure, and properties of a new representative of the family of calix[4]arene-containing [MnII 2MnIII 2]-clusters. *Russian Chemical Bulletin*, **2013**, 62, 536-542	1.7	4
189	Features of chemical bonding within the Fe(NO)2 fragment for crystalline bis(thiosulfate) tetranitrosyl diiron tetramethylammonium salt as an example according to high-resolution X-ray diffraction data. *Russian Chemical Bulletin*, **2015**, 64, 2351-2360	1.7	4
188	Synthesis and structure of 2-(4?-oxo-3H-quinazolin-2?-yl)-1,3-tropolone. *Russian Chemical Bulletin*, **2014**, 63, 1364-1372	1.7	4
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185	Crystal structure of 4,4?-dinitro-[3,3?,4?,3?]-tris-[1,2,5]-oxadiazole. *Journal of Structural Chemistry*, **2013**, 54, 462-464	0.9	4
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