

Dominik Schaniel

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107
papers

1,937
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119
ext. papers

2,180
ext. citations

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avg, IF

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L-index

#	Paper	IF	Citations
107	Photoinduced Nitrosyl Linkage Isomers Uncover a Variety of Unconventional Photorefractive Media. <i>Advanced Materials</i> , 2007 , 19, 723-726	24	78
106	Metal-organic frameworks as hosts for photochromic guest molecules. <i>Inorganic Chemistry</i> , 2013 , 52, 2744-9	5.1	77
105	Room temperature bistability with wide thermal hysteresis in a spin crossover silica nanocomposite. <i>Journal of Materials Chemistry C</i> , 2013 , 1, 1933	7.1	73
104	Photogeneration of two metastable NO linkage isomers with high populations of up to 76% in trans-[RuCl(py) ₄ (NO)][PF ₆] ₂ ·1/2H ₂ O. <i>Physical Chemistry Chemical Physics</i> , 2007 , 9, 3717-24	3.6	72
103	Structural influence on the photochromic response of a series of ruthenium mononitrosyl complexes. <i>Inorganic Chemistry</i> , 2012 , 51, 7492-501	5.1	68
102	Long-lived light-induced metastable states in trans-[Ru(NH ₃) ₄ (H ₂ O)NOCl ₃ · x H ₂ O and related compounds. <i>Physical Chemistry Chemical Physics</i> , 2005 , 7, 1164-70	3.6	60
101	[Ru(py) ₄ Cl(NO)](PF ₆) ₂ ·0.5H ₂ O: a model system for structural determination and ab initio calculations of photo-induced linkage NO isomers. <i>Acta Crystallographica Section B: Structural Science</i> , 2009 , 65, 612-23		58
100	Necessary conditions for the photogeneration of nitrosyl linkage isomers. <i>Physical Chemistry Chemical Physics</i> , 2009 , 11, 4391-5	3.6	56
99	Evidence for light-induced hole polarons in LiNbO ₃ . <i>Physical Review Letters</i> , 2005 , 95, 067404	7.4	56
98	Solution-Like Behavior of Photoswitchable Spiroyrans Embedded in Metal-Organic Frameworks. <i>Inorganic Chemistry</i> , 2017 , 56, 13100-13110	5.1	52
97	Magnetic relaxation behavior in La _{0.5} Ca _{0.5} MnO ₃ and Nd _{0.5} Sr _{0.5} MnO ₃ . <i>Physical Review B</i> , 2001 , 63,	3.3	44
96	Light-induced absorption changes by excitation of metastable states in Na ₂ [Fe(CN) ₅ NO]·2H ₂ O single crystals. <i>Physical Review B</i> , 2002 , 66,	3.3	40
95	Photoinduced nitrosyl linkage isomers in complexes based on the photochromic cation [RuNO(NH ₃) ₅] ³⁺ with the paramagnetic anion [Cr(CN) ₆] ³⁻ and the diamagnetic anions [Co(CN) ₆] ³⁻ and [ZrF ₆] ²⁻ <i>Chemical Physics</i> , 2007 , 340, 211-216	2.3	38
94	Polarons generated by laser pulses in doped LiNbO ₃ . <i>Physical Review B</i> , 2005 , 71,	3.3	38
93	Photocrystallographic, Spectroscopic, and Calorimetric Analysis of Light-Induced Linkage NO Isomers in [RuNO(NO) ₂](pyridine) ₂ OH]. <i>European Journal of Inorganic Chemistry</i> , 2015 , 2015, 4905-4913	3.3	36
92	Evidence for two light-induced metastable states in Cl ₃ [Ru(NH ₃) ₅ NO]·H ₂ O. <i>Chemical Physics Letters</i> , 2004 , 390, 347-351	2.5	36
91	Structure of the light-induced metastable state SII in Na ₂ [Fe(CN) ₅ NO]·2H ₂ O. <i>Physical Review B</i> , 2005 , 71,	3.3	36

90	Comparison of CCD, CMOS and Hybrid Pixel x-ray detectors: detection principle and data quality. <i>Physica Scripta</i> , 2016 , 91, 063001	2.6	33
89	Generation of one light-induced metastable nitrosyl linkage isomer in [Pt(NH ₃) ₄ Cl(NO)]Cl ₂ in the red spectral range. <i>Physical Chemistry Chemical Physics</i> , 2007 , 9, 5149-57	3.6	32
88	Ultrafast reversible ligand isomerisation in Na ₂ [Fe(CN) ₅ NO] x 2 H ₂ O single crystals. <i>Physical Chemistry Chemical Physics</i> , 2010 , 12, 9029-33	3.6	31
87	Bifunctional Materials Based on the Photochromic Cation [RuNO(NH ₃) ₅] ³⁺ with Paramagnetic Metal Complex Anions. <i>European Journal of Inorganic Chemistry</i> , 2006 , 2006, 4074-4085	2.3	29
86	Reversible photoswitching between nitrito-N and nitrito-O isomers in trans-[Ru(py) ₄ (NO ₂) ₂]. <i>Physical Chemistry Chemical Physics</i> , 2010 , 12, 6171-8	3.6	27
85	Metal-Organic Frameworks as Hosts for Fluorinated Azobenzenes: A Path towards Quantitative Photoswitching with Visible Light. <i>Chemistry - A European Journal</i> , 2019 , 25, 3606-3616	4.8	27
84	Nitric-oxide photorelease and photoinduced linkage isomerism on solid [Ru(NO)(terpy)(L)]BPh ₄ (L = glycolate dianion). <i>Dalton Transactions</i> , 2009 , 9113-6	4.3	26
83	Neutron diffraction shows a photoinduced isonitrosyl linkage isomer in the metastable state SI of Na ₂ [Fe(CN) ₅ NO]·2D ₂ O. <i>Physical Review B</i> , 2006 , 73,	3.3	26
82	Light-induced metastable states in oxalatenitrosylruthenium(II) and terpyridinenitrosylruthenium(II) complexes. <i>Inorganic Chemistry</i> , 2004 , 43, 3500-6	5.1	26
81	Transient kinetics of light-induced metastable states in single crystals and aqueous solutions of Na ₂ [Fe(CN) ₅ NO]·2H ₂ O. <i>Physical Review B</i> , 2005 , 72,	3.3	25
80	Photochromic Molecular Material Based on Anderson-Evans Polyoxometalate (h ₃ Cr(h ₃ OH) ₆ Mo ₆ O ₁₈) ³⁻ and Ruthenium Mononitrosyl Complexes	3	24
79	(h ₃ RuNO)(h ₃ NH) ₃ (X) ₄ ⁿ⁺ (X = h ₃ NH) ₃ , NO Releasing and Anticancer Properties of Octahedral Ruthenium-Nitrosyl Complexes with Equatorial 1 H-Indazole Ligands. <i>Inorganic Chemistry</i> , 2018 , 57, 10702-10717	5.1	22
78	Pulse recording of thermal and linkage isomer gratings in nitrosyl compounds. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2010 , 27, 927	1.7	22
77	{FeNO}-Type Halogenido Nitrosyl Ferrates: Syntheses, Bonding, and Photoinduced Linkage Isomerism. <i>Chemistry - A European Journal</i> , 2019 , 25, 1304-1325	4.8	21
76	Photoisomerisation in single molecules of nitroprusside embedded in mesopores of xerogels. <i>Journal of Sol-Gel Science and Technology</i> , 2009 , 50, 403-408	2.3	20
75	Photogeneration of nitrosyl linkage isomers in octahedrally coordinated platinum complexes in the red spectral range. <i>Inorganic Chemistry</i> , 2009 , 48, 11399-406	5.1	20
74	Photoinduced linkage isomerism of {RuNO}(6) complexes with bioligands and related chelators. <i>Dalton Transactions</i> , 2009 , 1034-45	4.3	20
73	Photogeneration of metastable side-on N ₂ linkage isomers in [Ru(NH ₃) ₅ N ₂]Cl ₂ , [Ru(NH ₃) ₅ N ₂]Br ₂ and [Os(NH ₃) ₅ N ₂]Cl ₂ . <i>Physical Chemistry Chemical Physics</i> , 2008 , 10, 5531-8	3.6	20

72	Light-induced structural changes by excitation of metastable states in Na ₂ [Fe(CN) ₅ NO]·2H ₂ O single crystals. <i>Physical Review B</i> , 2003 , 68,	3.3	20
71	Structural properties of Sr _{0.61} Ba _{0.39} Nb ₂ O ₆ in the temperature range 105-300K investigated by high-resolution neutron powder diffraction and specific heat measurements. <i>Physical Review B</i> , 2006 , 74,	3.3	19
70	Reaction of [RuNO(NO ₂) ₄ OH] ₂ with Sulfamic Acid as a Pathway to Mixed Nitro Pyridine Ruthenium Nitrosyl Complexes. <i>European Journal of Inorganic Chemistry</i> , 2016 , 2016, 4045-4053	2.3	19
69	Room-Temperature Photogeneration of Nitrosyl Linkage Isomers in Ruthenium Nitrosyl Complexes. <i>Chemistry - A European Journal</i> , 2019 , 25, 7569-7574	4.8	18
68	Reducing the positional modulation of NbO ₆ -octahedra in Sr _x Ba _{1-x} Nb ₂ O ₆ by increasing the barium content: A single crystal neutron diffraction study at ambient temperature for x = 0.61 and x = 0.34. <i>Zeitschrift Fur Kristallographie - Crystalline Materials</i> , 2008 , 223, 399-426	1	18
67	Evidence of four light-induced metastable states in iron-nitrosyl complexes. <i>Thermochimica Acta</i> , 2005 , 429, 19-23	2.9	18
66	Novel Photoactive Spirooxazine Based Switch@MOF Composite Materials. <i>ChemPhotoChem</i> , 2020 , 4, 195-206	3.3	17
65	Multiple light-induced NO linkage isomers in the dinitrosyl complex [RuCl(NO) ₂ (PPh ₃) ₂]BF ₄ unravelled by photocrystallographic and IR analysis. <i>IUCrJ</i> , 2015 , 2, 35-44	4.7	16
64	NO-binding in {Ru(NO)} _n -type [Ru(NO) _n (PPh ₃) _{6-n}]BF ₄ compounds. <i>Dalton Transactions</i> , 2014 , 43, 13278-92	4.3	16
63	Properties of metastable linkage NO isomers in Na ₂ [Fe(CN) ₅ NO]·2H ₂ O incorporated in mesopores of silica xerogels. <i>Physical Chemistry Chemical Physics</i> , 2012 , 14, 3775-81	3.6	16
62	Oxidation states and photoinduced metastable states in [Fe(CO) ₂ (NO) ₂]. <i>Polyhedron</i> , 2010 , 29, 2553-2559	5.7	16
61	Combining photoinduced linkage isomerism and nonlinear optical properties in ruthenium nitrosyl complexes. <i>Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials</i> , 2019 , 75, 1152-1163	1.8	16
60	Unraveling the mechanism of NO ligand photoisomerism by time-resolved infrared spectroscopy. <i>Chemical Physics Letters</i> , 2012 , 552, 64-68	2.5	15
59	Coordination Polymers as Template for Mesoporous Silica Films: A Novel Composite Material Fe(Htrz) ₃ @SiO ₂ with Remarkable Electrochemical Properties. <i>Chemistry of Materials</i> , 2019 , 31, 5796-5807	9.6	14
58	The first photochromic bimetallic assemblies based on Mn(III) and Mn(II) Schiff-base (salpn, dapsc) complexes and pentacyanonitrosylferrate. <i>CrystEngComm</i> , 2015 , 17, 3866-3876	3.3	13
57	Characterization of multifunctional [NaEuF ₄ /NaGdF ₄] core-shell nanoparticles with narrow size distribution. <i>Nanoscale</i> , 2016 , 8, 2832-43	7.7	12
56	Light-induced extinction originating from holographic scattering. <i>Optics Letters</i> , 2002 , 27, 2185-7	3	12
55	Structure and dynamics of guest molecules confined in a mesoporous silica matrix: Complementary NMR and PDF characterisation. <i>RSC Advances</i> , 2013 , 3, 26132	3.7	11

54	Phototriggered NO and CN release from [Fe(CN) ₅ NO] ²⁻ molecules electrostatically attached to TiO ₂ surfaces. <i>Physical Chemistry Chemical Physics</i> , 2010 , 12, 3283-8	3.6	11
53	Holographic light scattering in centrosymmetric sodium nitroprusside upon generation of light-induced metastable states. <i>Physical Review B</i> , 2006 , 73,	3.3	11
52	Wavelength-selective photoisomerisation of nitric oxide and nitrite in a rhodium complex. <i>CrystEngComm</i> , 2018 , 20, 7100-7108	3.3	11
51	The photochromic paramagnet derived from polyoxometalate [Cr(OH) ₆ Mo ₆ O ₁₈] ³⁻ and ruthenium mononitrosyl complex [RuNO(en) ₂ Cl] ²⁺ . <i>Inorganica Chimica Acta</i> , 2009 , 362, 2279-2282	2.7	10
50	Photoinduced linkage isomerism of binuclear bis(pyrazole-3,5-dicarboxylato)-bridged {RuNO} ₆ centres. <i>Inorganic Chemistry Communication</i> , 2009 , 12, 1064-1066	3.1	10
49	On the photophysical properties of new luminol derivatives and their synthetic phthalimide precursors. <i>Journal of Fluorescence</i> , 2010 , 20, 657-64	2.4	10
48	Structural analysis and IR-spectroscopy of a new anilinium hydrogenselenite hybrid compound: A subtle structural phase transition. <i>Inorganica Chimica Acta</i> , 2016 , 446, 6-12	2.7	10
47	In-house time-resolved photocrystallography on the millisecond timescale using a gated X-ray hybrid pixel area detector. <i>Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials</i> , 2017 , 73, 696-707	1.8	9
46	Second-Harmonic Generation by Ferroelectric Microparticles in Aerogels. <i>Chemistry of Materials</i> , 2006 , 18, 1534-1538	9.6	9
45	Modulated structure of potassium sodium strontium barium niobates (KNSBN): harmonic solution. <i>Acta Crystallographica Section B: Structural Science</i> , 2006 , 62, 228-35		9
44	XPAD X-ray hybrid pixel detector for charge density quality diffracted intensities on laboratory equipment. <i>Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials</i> , 2014 , 70, 783-91	1.8	8
43	Structure determination of molecular nanocomposites by combining pair distribution function analysis and solid-state NMR. <i>RSC Advances</i> , 2015 , 5, 8895-8902	3.7	8
42	Variable refractive indices in mixed oxide xerogels. <i>Scripta Materialia</i> , 2008 , 58, 553-555	5.6	8
41	Superspace approach applied to a neutron-diffraction study of the holographic data storage material Sr _{0.61} Ba _{0.39} Nb ₂ O ₆ . <i>Applied Physics A: Materials Science and Processing</i> , 2002 , 74, s963-s965	2.6	8
40	Synthesis, structural investigation and NLO properties of three 1,2,4-triazole Schiff bases. <i>Journal of Molecular Structure</i> , 2020 , 1219, 128492	3.4	7
39	Second-harmonic generation in nano-structured - and -xerogels with randomly oriented ferroelectric grains. <i>Optical Materials</i> , 2010 , 32, 504-509	3.3	7
38	Neutron photocrystallography: simulation and experiment. <i>Zeitschrift für Kristallographie</i> , 2008 , 223,		7
37	Tracking the light-induced isomerization processes and the photostability of spiropyrans embedded in the pores of crystalline nanoporous MOFs IR spectroscopy. <i>Photochemical and Photobiological Sciences</i> , 2020 , 19, 1433-1441	4.2	7

36	Evidence for a photoinduced isonitrosyl isomer in ruthenium dinitrosyl compounds. <i>CrystEngComm</i> , 2019 , 21, 5804-5810	3.3	6
35	[Ru(py)4Cl(NO)](PF6)2·5H2O: a model system for structural determination and ab initio calculations of photo-induced linkage NO isomers. Erratum. <i>Acta Crystallographica Section B: Structural Science</i> , 2009 , 65, 787-787		6
34	Bifunctional supramolecular systems on the platform of p-sulfonatothiocalix[4]arene containing photochromic mononitrosyl Ru (II) and paramagnetic aqua Gd or Dy complexes. <i>Physica B: Condensed Matter</i> , 2010 , 405, S30-S33	2.8	6
33	Identification of single photoswitchable molecules in nanopores of silica xerogels using powder diffraction. <i>Journal of Applied Crystallography</i> , 2010 , 43, 1040-1045	3.8	6
32	Preface: Photocrystallography. <i>Zeitschrift für Kristallographie</i> , 2008 , 223,		6
31	The impact of counterion on the metastable state properties of nitrosyl ruthenium complexes. <i>New Journal of Chemistry</i> , 2020 , 44, 18014-18024	3.6	6
30	Photo-induced linkage NO isomers in the dinitrosyl complex [Ru(NO)2(PCy3)2Cl](BF4) identified by photocrystallography and IR-spectroscopy. <i>CrystEngComm</i> , 2016 , 18, 7260-7268	3.3	6
29	Non-covalent Immobilization of Iron-triazole (Fe(Htrz)3) Molecular Mediator in Mesoporous Silica Films for the Electrochemical Detection of Hydrogen Peroxide. <i>Electroanalysis</i> , 2020 , 32, 690-697	3	6
28	Ruthenium-nitrosyl complexes as NO-releasing molecules, potential anticancer drugs, and photoswitches based on linkage isomerism.. <i>Dalton Transactions</i> , 2022 ,	4.3	6
27	Photocrystallography and IR spectroscopy of light-induced linkage NO isomers in [RuBr(NO)2(PCyp3)2]BF4. <i>Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials</i> , 2015 , 71, 788-97	1.8	5
26	Light-induced absorption in lead lanthanum zirconate titanate ceramics. <i>Journal of Applied Physics</i> , 2009 , 105, 024103	2.5	5
25	Structure analysis and the existence of light-induced long-lived metastable states in Xn[Fe(CN)5NO] with inorganic and organic cations: Xn = Pb, (H3O+CH6N+), (C2N2H7)2 and (C16H36N)2. <i>Zeitschrift Fur Kristallographie - Crystalline Materials</i> , 2004 , 219,	1	5
24	Bridging Structural and Dynamical Models of a Confined Sodium Nitroprusside Complex. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 21883-21890	3.8	5
23	Effect of synthesis conditions on porous structure, luminescence and absorption properties of dye-loaded silica xerogels. <i>Microporous and Mesoporous Materials</i> , 2011 , 142, 245-250	5.3	4
22	Photocrystallography at TriCS/SINQ: light-induced structural changes in Na2[Fe(CN)5NO]2H2O. <i>Physica B: Condensed Matter</i> , 2004 , 350, 87-90	2.8	4
21	Photocrystallographic and spectroscopic studies of a model (N,N,O)-donor square-planar nickel(II) nitro complex: in search of high-conversion and stable photoswitchable materials. <i>IUCrJ</i> , 2020 , 7, 1188-1198	4.7	4
20	Nonlinear optical organic-inorganic crystals: synthesis, structural analysis and verification of harmonic generation in tri-(o-chloroanilinium nitrate). <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2019 , 75, 107-114	1.7	4
19	Solution and solid-state light-induced transformations in heterometallic vanadium-ruthenium nitrosyl complex. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2021 , 407, 113044	4.7	4

18	Structural reinvestigation of the photoluminescent complex [NdCl ₂ (H ₂ O) ₆]Cl. <i>Acta Crystallographica Section C: Crystal Structure Communications</i> , 2013 , 69, 1002-5		3
17	Metal Organic Framework Compounds (MOFs) as Host Materials for Optically Switchable Complexes. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2008 , 634, 2018-2018	1.3	3
16	Comment on "Theoretical study of the photoinduced transfer among the ground state and two metastable states in [Fe(CN) ₅ NO] ²⁻ " [J. Chem. Phys. 122, 074314 (2005)]. <i>Journal of Chemical Physics</i> , 2005 , 123, 047101; author reply 047102	3.9	3
15	Photoinduced linkage isomers in a model ruthenium nitrosyl complex: Identification and assignment of vibrational modes. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2021 , 263, 120217	4.4	3
14	Improvement in photostability of solid state dye by oxygen removal. <i>Optical Materials Express</i> , 2012 , 2, 71	2.6	2
13	Sub-nanosecond multi-channel time-to-digital converter for the 2-D position-sensitive neutron detectors at TriCS and AMOR. <i>Applied Physics A: Materials Science and Processing</i> , 2002 , 74, s82-s85	2.6	2
12	X-ray scattering study of water confined in bioactive glasses: experimental and simulated pair distribution function. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2020 , 76, 589-599	1.7	2
11	Synthesis, structure, and properties of the [RuNO(NH ₃) ₅][Co(CN) ₆] complex containing a photochromic cation. <i>Russian Chemical Bulletin</i> , 2008 , 57, 557-560	1.7	1
10	Observation of gelation process and particle distribution during sol-gel synthesis by particle image velocimetry. <i>Journal of Sol-Gel Science and Technology</i> , 2008 , 45, 73-77	2.3	1
9	Valence-sensitive determination of Cr ³⁺ and Ce ³⁺ concentration in doped Sr _{0.61} Ba _{0.39} Nb ₂ O ₆ from magnetization studies and paramagnetic relaxation of Ce ³⁺ . <i>Physical Review B</i> , 2004 , 70,	3.3	1
8	Long-Lived Light-Induced Metastable States in trans-[Ru(NH ₃) ₄ (H ₂ O)NO] Cl ₃ ·H ₂ O and Related Compounds.. <i>ChemInform</i> , 2005 , 36, no		1
7	Dimer splitting of Er ³⁺ in Cs ₃ Er ₂ Br ₉ . <i>Journal of Alloys and Compounds</i> , 2001 , 323-324, 481-485	5.7	1
6	Nitrosyl linkage photoisomerization in heteroleptic fluoride ruthenium complexes derived from labile nitrate precursors. <i>New Journal of Chemistry</i> , 2021 , 45, 8192-8202	3.6	1
5	The Ruthenium Nitrosyl Moiety in Clusters: Trinuclear Linear μ-Hydroxido Magnesium(II)-Diruthenium(II), μ-Oxido Trinuclear Diiron(III)-Ruthenium(II), and Tetranuclear μ-Oxido Trigallium(III)-Ruthenium(II) Complexes.. <i>Inorganic Chemistry</i> , 2021 ,	5.1	1
4	An experimental XAS and ab initio approach to describe the electronic and local structure of sodium nitroprussiate single crystals. <i>Journal of Molecular Structure</i> , 2021 , 1245, 131119	3.4	0
3	Monitoring of the ultrafast vibrational kinetic during formation of photo-induced linkage isomers in Na ₂ [Fe(CN) ₅ NO]·2H ₂ O single crystal.. <i>EPJ Web of Conferences</i> , 2013 , 41, 05005	0.3	
2	Tuning ability of photosensitive ML ₅ NO-molecules 2007 , SuC5		
1	Dimer splitting of Er ³⁺ in Cs ₃ Er ₂ X ₉ (X=Cl,Br): mystery solved. <i>Physica B: Condensed Matter</i> , 2000 , 276-278, 690-691	2.8	

