Pradip K Mascharak

List of Publications by Year
in descending order

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208 papers	9,718 citations	25034 57 h-index	49909 87 g-index
214 all docs	214 docs citations	214 times ranked	6015 citing authors

#	Article	IF	Citations
1	X-ray spectroscopic studies of nickel complexes, with application to the structure of nickel sites in hydrogenases. Inorganic Chemistry, 1991, 30, 920-928.	4.0	304
2	Photoactive ruthenium nitrosyls: Effects of light and potential application as NO donors. Coordination Chemistry Reviews, 2008, 252, 2093-2114.	18.8	290
3	Photoactive Ruthenium Nitrosyls as NO Donors: How To Sensitize Them toward Visible Light. Accounts of Chemical Research, 2011, 44, 289-298.	15.6	286
4	Structural and functional models of nitrile hydratase. Coordination Chemistry Reviews, 2002, 225, 201-214.	18.8	255
5	Design Strategies To Improve the Sensitivity of Photoactive Metal Carbonyl Complexes (photoCORMs) to Visible Light and Their Potential as CO-Donors to Biological Targets. Accounts of Chemical Research, 2014, 47, 2603-2611.	15.6	208
6	Fe(III) and Co(III) Centers with Carboxamido Nitrogen and Modified Sulfur Coordination:â€‰ Lessons Learned from Nitrile Hydratase. Accounts of Chemical Research, 2004, 37, 253-260.	15.6	167
7	Sensitization of Ruthenium Nitrosyls to Visible Light via Direct Coordination of the Dye Resorufin: Trackable NO Donors for Light-Triggered NO Delivery to Cellular Targets. Journal of the American Chemical Society, 2008, 130, 8834-8846.	13.7	163
8	[Fe(PMA)]n+ (n = 1,2): good models of iron-bleomycins and examples of mononuclear non-heme iron complexes with significant oxygen-activation capabilities. Journal of the American Chemical Society, 1993, 115, 7971-7977.	13.7	161
9	Near-Infrared Light Activated Release of Nitric Oxide from Designed Photoactive Manganese Nitrosyls:â€‰ Strategy, Design, and Potential as NO Donors. Journal of the American Chemical Society, 2008, 130, 4447-4458.	13.7	148
10	Coordination of carboxamido nitrogen to tervalent iron: insight into a new chapter of iron chemistry. Chemical Society Reviews, 2000, 29, 69-74.	38.1	140
11	A Synthetic Analogue of the Active Site of Fe-Containing Nitrile Hydratase with Carboxamido N and Thiolato S as Donors:Â Synthesis, Structure, and Reactivities. Journal of the American Chemical Society, 2001, 123, 3247-3259.	13.7	135
12	Fiat Lux: selective delivery of high flux of nitric oxide (NO) to biological targets using photoactive metal nitrosyls. Current Opinion in Chemical Biology, 2008, 12, 238-244.	6.1	126
13	Co(III)â^'Alkylperoxo Complexes:â€‰ Syntheses, Structureâ^'Reactivity Correlations, and Use in the Oxidation of Hydrocarbons. Accounts of Chemical Research, 2000, 33, 539-545.	15.6	123
14	Photolabile Ruthenium Nitrosyls with Planar Dicarboxamide Tetradentate N4Ligands:Â Effects of In-Plane and Axial Ligand Strength on NO Release. Inorganic Chemistry, 2004, 43, 4487-4495.	4.0	117
15	New octahedral thiolato complexes of divalent nickel: syntheses, structures, and properties of (Et4N)[Ni(SC5H4N)3] and (Ph4P)[Ni(SC4H3N2)3].CH3CN. Inorganic Chemistry, 1987, 26, 2792-2797.	4.0	115
16	Syntheses, Structures, and Reactivities of Cobalt(III)â^'Alkylperoxo Complexes and Their Role in Stoichiometric and Catalytic Oxidation of Hydrocarbons. Journal of the American Chemical Society, 1998, 120, 9015-9027.	13.7	114
17	Toward Functional Models of the Nickel Sites in [FeNi] and [FeNiSe] Hydrogenases: Syntheses, Structures, and Reactivities of Nickel(II) Complexes Containing [NiN3S2] and [NiN3Se2] Chromophores. Journal of the American Chemical Society, 1995, 117, 1584-1594.	13.7	111
18	A Ruthenium Nitrosyl That Rapidly Delivers NO to Proteins in Aqueous Solution upon Short Exposure to UV Light. Inorganic Chemistry, 2003, 42, 7363-7365.	4.0	107

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19	The First Non-Heme Iron(III) Complex with a Ligated Carboxamido Group That Exhibits Photolability of a Bound NO Ligand. Angewandte Chemie - International Edition, 2002, 41, 2512-2515.	13.8	102
20	Rapid CO release from a Mn(i) carbonyl complex derived from azopyridine upon exposure to visible light and its phototoxicity toward malignant cells. Chemical Communications, 2013, 49, 11254.	4.1	101
21	Reactions of NO with Mn(II) and Mn(III) Centers Coordinated to Carboxamido Nitrogen:Â Synthesis of a Manganese Nitrosyl with Photolabile NO. Inorganic Chemistry, 2004, 43, 2988-2997.	4.0	98
22	Syntheses, Structures, and Properties of New Manganese Carbonyls as Photoactive CO-Releasing Molecules: Design Strategies That Lead to CO Photolability in the Visible Region. Inorganic Chemistry, 2012, 51, 11930-11940.	4.0	97
23	Photoactive metal carbonyl complexes as potential agents for targeted CO delivery. Journal of Inorganic Biochemistry, 2014, 133, 127-135.	3.5	97
24	Syntheses, structures, and reactivities of synthetic analogs of the three forms of cobalt(III)-bleomycin: proposed mode of light-induced DNA damage by the cobalt(III) chelate of the drug. Journal of the American Chemical Society, 1992, 114, 3841-3853.	13.7	96
25	Manganese Carbonyls Bearing Tripodal Polypyridine Ligands as Photoactive Carbon Monoxide-Releasing Molecules. Inorganic Chemistry, 2012, 51, 601-608.	4.0	96
26	Effect of Carboxamido N Coordination to Iron on the Redox Potential of Low-Spin Non-Heme Iron Centers with N,S Coordination:Â Relevance to the Iron Site of Nitrile Hydratase. Inorganic Chemistry, 1998, 37, 1138-1139.	4.0	95
27	Syntheses, Structures, and Reactivity of Low Spin Iron(III) Complexes Containing a Single Carboxamido Nitrogen in a [FeN5L] Chromophore. Inorganic Chemistry, 2001, 40, 2810-2817.	4.0	94
28	Iron Nitrosyls of a Pentadentate Ligand Containing a Single Carboxamide Group:Â Syntheses, Structures, Electronic Properties, and Photolability of NO. Inorganic Chemistry, 2003, 42, 6812-6823.	4.0	94
29	[FeIII(PMA)]2+:Â A Mononuclear Non-Heme Iron Complex That Catalyzes Alkane Oxidation. Inorganic Chemistry, 1996, 35, 6273-6281.	4.0	88
30	Structural and spectroscopic models of the A-cluster of acetyl coenzyme a synthase/carbon monoxide dehydrogenase: Nature's Monsanto acetic acid catalyst. Coordination Chemistry Reviews, 2005, 249, 3007-3024.	18.8	87
31	Co(III) Complexes with Coordinated Carboxamido Nitrogens and Thiolato Sulfurs as Models for Co-Containing Nitrile Hydratase and Their Conversion to the Corresponding Sulfinato Species. Inorganic Chemistry, 2000, 39, 357-362.	4.0	82
32	Synthesis, Properties, and Structure of a Stable Cobalt(III) Alkyl Peroxide Complex and Its Role in the Oxidation of Cyclohexane. Inorganic Chemistry, 1996, 35, 6282-6291.	4.0	81
33	Co(III) Complexes with Carboxamido N and Thiolato S Donor Centers:â€‰ Models for the Active Site of Co-Containing Nitrile Hydratases. Journal of the American Chemical Society, 1999, 121, 3553-3554.	13.7	79
34	Photosensitization via Dye Coordination:Â A New Strategy to Synthesize Metal Nitrosyls That Release NO under Visible Light. Journal of the American Chemical Society, 2007, 129, 5342-5343.	13.7	78
35	Synthesis, structure determination, and electronic structure characterization of two mixed-valence tetranuclear platinum blues with bridging .alpha.-pyridonate or 1-methyluracilate ligands. Inorganic Chemistry, 1987, 26, 1261-1270.	4.0	77
36	Synthesis, Structures, and CO Release Capacity of a Family of Water-Soluble PhotoCORMs: Assessment of the Biocompatibility and Their Phototoxicity toward Human Breast Cancer Cells. Inorganic Chemistry, 2017, 56, 1534-1545.	4.0	77

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37	Synthesis, Structure, and Properties of {N,Nâ€˜-Bis[2-(2-pyridyl)ethyl]pyridine-2,6-dicarboxamido}copper(II). Inorganic Chemistry, 1996, 35, 1410-1412.	4.0	73
38	Light-Triggered Eradication of Acinetobacter baumannii by Means of NO Delivery from a Porous Material with an Entrapped Metal Nitrosyl. Journal of the American Chemical Society, 2012, 134, 11573-11582.	13.7	73
39	Synthesis and Characterization of a â€œTurn-Onâ€•photoCORM for Trackable CO Delivery to Biological Targets. ACS Medicinal Chemistry Letters, 2014, 5, 1324-1328.	2.8	73
40	Structureâ^'Spectroscopy Correlation in Distorted Five-Coordinate Cu(II) Complexes:Â A Case Study with a Set of Closely Related Copper Complexes of Pyridine-2,6-dicarboxamide Ligands. Inorganic Chemistry, 2001, 40, 7003-7008.	4.0	71
41	Carboxamido Nitrogens Are Good Donors for Fe(III):Â Syntheses, Structures, and Properties of Two Low-Spin Nonmacrocyclic Iron(III) Complexes with Tetracarboxamido-N Coordination. Inorganic Chemistry, 1999, 38, 3258-3260.	4.0	70
42	Luminescent Re(I) Carbonyl Complexes as Trackable PhotoCORMs for CO delivery to Cellular Targets. Inorganic Chemistry, 2017, 56, 2863-2873.	4.0	70
43	Convenient synthesis and properties of (R4N)2[Ni(SAr)4] (Ar = C6H5, p-C6H4Cl, p-C6H4CH3, and) Tj ETQq1 1 0.784314 rgBT /Overlo Inorganic Chemistry, 1986, 25, 3014-3018.	4.0	68
44	Spectroscopic Definition of the Geometric and Electronic Structure of the Non-Heme Iron Active Site in Iron(II) Bleomycin: Correlation with Oxygen Reactivity. Journal of the American Chemical Society, 1995, 117, 4545-4561.	13.7	68
45	Modulation of the pKaof Metal-Bound Water via Oxidation of Thiolato Sulfur in Model Complexes of Co(III) Containing Nitrile Hydratase:Â Insight into Possible Effect of Cysteine Oxidation in Coâ^'Nitrile Hydratase. Inorganic Chemistry, 2003, 42, 5751-5761.	4.0	68
46	Release of Nitric Oxide from a Solâ^'Gel Hybrid Material Containing a Photoactive Manganese Nitrosyl upon Illumination with Visible Light. Journal of the American Chemical Society, 2006, 128, 7166-7167.	13.7	68
47	A Theranostic Two-Tone Luminescent PhotoCORM Derived from Re(I) and (2-Pyridyl)-benzothiazole: Trackable CO Delivery to Malignant Cells. Inorganic Chemistry, 2016, 55, 7852-7858.	4.0	68
48	Oxidation of Metal-Bound Thiolato Sulfur Centers in Fe(III) and Co(III) Complexes with Carboxamido Nitrogens and Thiolato Sulfurs as Donors:â€‰ Relevance to the Active Sites of Nitrile Hydratases. Inorganic Chemistry, 1999, 38, 616-617.	4.0	67
49	Photosensitization of Ruthenium Nitrosyls to Red Light with an Isoelectronic Series of Heavy-Atom Chromophores: Experimental and Density Functional Theory Studies on the Effects of O-, S- and Se-Substituted Coordinated Dyes. Inorganic Chemistry, 2009, 48, 6904-6917.	4.0	67
50	Nitric oxide-donating materials and their potential in pharmacological applications for site-specific nitric oxide delivery. Future Medicinal Chemistry, 2009, 1, 1497-1507.	2.3	66
51	Convenient synthesis of tris(tetraethylammonium) hexacyanoferrate(III) and its use as an oxidant with tunable redox potential. Inorganic Chemistry, 1986, 25, 245-247.	4.0	64
52	Ruthenium Nitrosyls Derived from Polypyridine Ligands with Carboxamide or Imine Nitrogen Donor(s):Â Isoelectronic Complexes with Different NO Photolability. Inorganic Chemistry, 2007, 46, 2328-2338.	4.0	63
53	Photodelivery of CO by Designed PhotoCORMs: Correlation between Absorption in the Visible Region and Metalâ€“CO Bond Labilization in Carbonyl Complexes. ChemMedChem, 2014, 9, 1266-1274.	3.2	63
54	Rapid Eradication of Human Breast Cancer Cells through Trackable Light-Triggered CO Delivery by Mesoporous Silica Nanoparticles Packed with a Designed photoCORM. Chemistry of Materials, 2015, 27, 8387-8397.	6.7	63

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55	Designed Iron Carbonyls as Carbon Monoxide (CO) Releasing Molecules: Rapid CO Release and Delivery to Myoglobin in Aqueous Buffer, and Vasorelaxation of Mouse Aorta. Inorganic Chemistry, 2011, 50, 3127-3134.	4.0	62
56	Pentacoordinated nickel(II) complexes with thiolato ligation: synthetic strategy, structures, and properties. Inorganic Chemistry, 1991, 30, 929-937.	4.0	60
57	Unusual Reactivity of Methylene Group Adjacent to Pyridine-2-Carboxamido Moiety in Iron(III) and Cobalt(III) Complexes. Inorganic Chemistry, 2002, 41, 2754-2760.	4.0	58
58	Exceptionally rapid CO release from a manganese(<scp>i</scp>) tricarbonyl complex derived from bis(4-chloro-phenylimino)acenaphthene upon exposure to visible light. Dalton Transactions, 2015, 44, 13828-13834.	3.3	58
59	Attenuation of Antioxidant Capacity in Human Breast Cancer Cells by Carbon Monoxide through Inhibition of Cystathionine Î²-Synthase Activity: Implications in Chemotherapeutic Drug Sensitivity. Journal of Medicinal Chemistry, 2017, 60, 8000-8010.	6.4	58
60	A Luminescent Manganese PhotoCORM for CO Delivery to Cellular Targets under the Control of Visible Light. Inorganic Chemistry, 2018, 57, 1766-1773.	4.0	58
61	Synthetic Analogues of the Active Site of the A-Cluster of Acetyl Coenzyme A Synthase/CO Dehydrogenase:â€‰ Syntheses, Structures, and Reactions with CO. Inorganic Chemistry, 2006, 45, 3424-3436.	4.0	57
62	Monomeric and Dimeric Copper(II) Complexes of a Novel Tripodal Peptide Ligand:â€‰ Structures Stabilized via Hydrogen Bonding or Ligand Sharing. Inorganic Chemistry, 2000, 39, 5326-5332.	4.0	56
63	Mononuclear nickel(II) complex with [NiN3S2] chromophore that readily affords the nickel(I) and nickel(III) analogs: probe into the redox behavior of the nickel site in [iron-nickel] hydrogenases. Journal of the American Chemical Society, 1992, 114, 9666-9668.	13.7	54
64	Structural Models of the Bimetallic Subunit at the A-Cluster of Acetyl Coenzyme A Synthase/CO Dehydrogenase:Â Binuclear Sulfur-Bridged Niâ^'Cu and Niâ^'Ni Complexes and Their Reactions with CO. Journal of the American Chemical Society, 2004, 126, 14714-14715.	13.7	54
65	Characterization of a platinum pyrimidine blue: synthesis, structure, and physical properties of cis-diammineplatinum 1-methyluracil blue. Journal of the American Chemical Society, 1984, 106, 6428-6430.	13.7	53
66	EXAFS investigations of the nickel site in Thiocapsa roseopersicina hydrogenase: evidence for a novel nickel-iron-sulfur cluster. Journal of the American Chemical Society, 1991, 113, 3962-3972.	13.7	51
67	Low-spin iron(III) complexes with N,S coordination: syntheses, structures, and properties of bis(N-2-mercaptophenyl-2â€²-pyridylmethyleniminato)iron(III) tetraphenylborate and bis(N-2-mercapto-2-methylpropyl-2â€²-pyridylmethyleniminato)iron(III) tetraphenylborate. Inorganica Chimica Acta, 1999, 285, 269-276.	2.4	51
68	Characterization of a crystalline synthetic analog of copper(II)-bleomycin. Journal of the American Chemical Society, 1988, 110, 1996-1997.	13.7	50
69	Incorporation of a Designed Ruthenium Nitrosyl in PolyHEMA Hydrogel and Light-Activated Delivery of NO to Myoglobin. Inorganic Chemistry, 2007, 46, 6601-6606.	4.0	50
70	Syntheses, Structures, and Photochemistry of Manganese Nitrosyls Derived from Designed Schiff Base Ligands: Potential NO Donors That Can Be Activated by Near-Infrared Light. Inorganic Chemistry, 2009, 48, 9104-9111.	4.0	50
71	Eradication of Pathogenic Bacteria by Remote Delivery of NO via Light Triggering of Nitrosyl-Containing Materials. ACS Medicinal Chemistry Letters, 2010, 1, 180-183.	2.8	50
72	X-ray absorption spectra of nickel complexes with N3S2 chromophores and spectroscopic studies on hydride and carbon monoxide binding at these nickel centers: relevance to the reactivity of the nickel site(s) in [FeNi] hydrogenases. Inorganic Chemistry, 1992, 31, 3612-3619.	4.0	48

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73	Synthetic analog approach to metallobleomycins. 4. New halobridged dimeric and polymeric (infinite) Tj ETQq1 1 0.784314 rgBT /Ove 1988, 27, 1581-1587.	4.0	47
74	Structural Features That Control Oxygen Activation at the Non-Heme Iron Site in Fe(II)-Bleomycin: An Analog Study. Journal of the American Chemical Society, 1995, 117, 3883-3884.	13.7	47
75	Structure Variation Due to Ligand Flexibility:Â Syntheses and Structures of the Copper(II) Complexes [Cu(APPy)] and [Cu2(AEPy)2] Where APPyH2= Bis[3-(2-pyridinecarboxamido)propyl]- methylamine and AEPyH2= Bis[3-(2-pyridine- carboxamido)ethyl]methylamine. Inorganic Chemistry, 2001, 40, 1069-1073.	4.0	47
76	A New Approach for Studying Fast Biological Reactions Involving Nitric Oxide: Generation of NO Using Photolabile Ruthenium and Manganese NO Donors. Photochemistry and Photobiology, 2006, 82, 1377.	2.5	47
77	Biological Activity of Designed Photolabile Metal Nitrosyls:Â Light-Dependent Activation of Soluble Guanylate Cyclase and Vasorelaxant Properties in Rat Aorta. Journal of Medicinal Chemistry, 2006, 49, 7325-7330.	6.4	46
78	Light-triggered carbon monoxide delivery with Al-MCM-41-based nanoparticles bearing a designed manganese carbonyl complex. Journal of Materials Chemistry B, 2014, 2, 2107.	5.8	46
79	Synthetic analog approach to metallobleomycins. 1. Syntheses, structures and properties of the copper complexes of two peptides related to bleomycins. Inorganic Chemistry, 1986, 25, 3377-3384.	4.0	45
80	Synthesis, structure, and properties of potassium bis(L-cysteinato-N,S)nickelate(II) sesquihydrate. Inorganic Chemistry, 1991, 30, 2448-2451.	4.0	45
81	Syntheses, Structures, and Reactivities of {Feâ^'NO}6Nitrosyls Derived from Polypyridine-Carboxamide Ligands:Â Photoactive NO-Donors and Reagents for S-Nitrosylation of Alkyl Thiols. Inorganic Chemistry, 2004, 43, 5736-5743.	4.0	45
82	Characterization of pHEMA-based hydrogels that exhibit light-induced bactericidal effect via release of NO. Journal of Materials Science: Materials in Medicine, 2009, 20, 2353-2360.	3.6	45
83	Carbon monoxide sensitizes cisplatin-resistant ovarian cancer cell lines toward cisplatin via attenuation of levels of glutathione and nuclear metallothionein. Journal of Inorganic Biochemistry, 2019, 191, 29-39.	3.5	45
84	Light-triggered nitric oxide delivery to malignant sites and infection. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2013, 371, 20120368.	3.4	44
85	Incorporation of a ruthenium nitrosyl complex into liposomes, the nitric oxide released from these liposomes and HepG2 cell death mechanism. Coordination Chemistry Reviews, 2016, 306, 701-707.	18.8	44
86	Synthetic analog approach to metallobleomycins. 2. Synthesis, structure, and properties of the low-spin iron(III) complex of N-(2-(4-imidazolyl)ethyl)pyridine-2-carboxamide. Inorganic Chemistry, 1987, 26, 754-759.	4.0	43
87	Chemistry of iron(III) complexes of N,Nâ€²-bis(2-hydroxyphenyl)-pyridine-2,6-dicarboxamide: seven-coordinate iron(III) complexes ligated to deprotonated carboxamido nitrogens. Inorganica Chimica Acta, 2000, 297, 106-114.	2.4	43
88	Chiral Monomeric and Homochiral Dimeric Copper(II) Complexes of a New Chiral Ligand,N-(1,2-Bis(2-pyridyl)ethyl)pyridine-2-carboxamide:Â An Example of Molecular Self-Recognition. Inorganic Chemistry, 2002, 41, 1545-1549.	4.0	43
89	Spontaneous Reduction of a Low-Spin Fe(III) Complex of a Neutral Pentadentate N5Schiff Base Ligand to the Corresponding Fe(II) Species in Acetonitrile. Inorganic Chemistry, 2002, 41, 5403-5409.	4.0	43
90	A designed synthetic analog of cobalt(III)-bleomycin with enhanced DNA-binding and photocleaving activity. Journal of the American Chemical Society, 1993, 115, 2996-2997.	13.7	42

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91	Reactions of Nitric Oxide with a Low-Spin Fe(III) Center Ligated to a Tetradentate Dicarboxamide N4 Ligand:â€‰ Parallels between Heme and Non-heme Systems. Journal of the American Chemical Society, 2004, 126, 4780-4781.	13.7	41
92	Ruthenium Nitrosyls Derived from Tetradentate Ligands Containing Carboxamido-N and Phenolato-O Donors: Syntheses, Structures, Photolability, and Time Dependent Density Functional Theory Studies. Inorganic Chemistry, 2010, 49, 1487-1495.	4.0	41
93	Conversion of Azomethine Moiety to Carboxamido Group at Cobalt(III) Center in Model Complexes of Co-Containing Nitrile Hydratase. Inorganic Chemistry, 2001, 40, 5408-5414.	4.0	40
94	Thermally Induced Stoichiometric and Catalytic O-Atom Transfer by a Non-Heme Iron(III)â€“Nitro Complex: First Example of Reversible{Feâ€“NO}7â†”FeIII-NO2 Transformation in the Presence of Dioxygen. Angewandte Chemie - International Edition, 2003, 42, 4517-4521.	13.8	40
95	Dye-Tethered Ruthenium Nitrosyls Containing Planar Dicarboxamide Tetradentate N4 Ligands: Effects of In-Plane Ligand Twist on NO Photolability. Inorganic Chemistry, 2011, 50, 317-324.	4.0	40
96	Syntheses and Stuctures of Alkyl Peroxo Adducts of Î²-Diketonate Cobalt(III) Complexes and Their Role in Oxidation of Hydrocarbons and Olefin Epoxidation. Inorganic Chemistry, 1999, 38, 1603-1608.	4.0	39
97	Light-triggered CO delivery by a water-soluble and biocompatible manganese photoCORM. Dalton Transactions, 2016, 45, 13204-13213.	3.3	39
98	Silver complexes of ligands derived from adamantylamines: Water-soluble silver-donating compounds with antibacterial properties. Journal of Inorganic Biochemistry, 2017, 168, 13-17.	3.5	39
99	Emerging Antimicrobial Applications of Nitric Oxide (NO) and NO-Releasing Materials. Anti-Infective Agents in Medicinal Chemistry, 2010, 9, 187-197.	0.6	39
100	Syntheses, structures, and spectral properties of a synthetic analog of copper(II)-bleomycin and an intermediate in the process of its formation. Inorganic Chemistry, 1989, 28, 468-477.	4.0	37
101	Iron(II) and iron(III) complexes of N-(2-(4-imidazolyl)ethyl)pyrimidine-4-carboxamide, a ligand resembling part of the metal-binding domain of bleomycin. Inorganic Chemistry, 1990, 29, 3229-3234.	4.0	37
102	Pyrazole Ligation to Cobalt(III) Centers:â€‰ Syntheses, Structures, and Properties of Cobalt(III) Complexes of N,Nâ€˜-Bis[2-(1-pyrazolyl)ethyl]pyridine-2,6-dicarboxamide. Inorganic Chemistry, 1997, 36, 6323-6327.	4.0	37
103	Thiolate S-Oxygenation Controls Nitric Oxide (NO) Photolability of a Synthetic Iron Nitrile Hydratase (Fe-NHase) Model Derived from Mixed Carboxamide/Thiolate Ligand. Journal of the American Chemical Society, 2009, 131, 8340-8341.	13.7	37
104	Mechanism of NO Photodissociation in Photolabile Manganeseâ€“NO Complexes with Pentadentate N5 Ligands. Inorganic Chemistry, 2011, 50, 12192-12203.	4.0	36
105	Photolability of NO in designed metal nitrosyls with carboxamido-N donors: a theoretical attempt to unravel the mechanism. Dalton Transactions, 2012, 41, 4726.	3.3	36
106	Eradication of HT-29 colorectal adenocarcinoma cells by controlled photorelease of CO from a CO-releasing polymer (photoCORP-1) triggered by visible light through an optical fiber-based device. Journal of Controlled Release, 2017, 264, 192-202.	9.9	36
107	Reductive Nitrosylation and Proton-Assisted Bridge Splitting of a (Î¼-Oxo)dimanganese(III) Complex Derived from a Polypyridine Ligand with One Carboxamide Group. Inorganic Chemistry, 2005, 44, 8469-8475.	4.0	35
108	Triggered Dye Release via Photodissociation of Nitric Oxide from Designed Ruthenium Nitrosyls: Turn-ON Fluorescence Signaling of Nitric Oxide Delivery. Inorganic Chemistry, 2011, 50, 9045-9052.	4.0	35

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109	Structure and properties of bis(D-penicillaminato-N,S)nickelate(II) tetrahydrate: a monomeric nickel complex of D-penicillamine, the antidote for nickel toxicity. Inorganic Chemistry, 1991, 30, 3967-3969.	4.0	33
110	Stoichiometric and Catalytic Secondary O-Atom Transfer by Fe(III)â^'NO2 Complexes Derived from a Planar Tetradentate Non-heme Ligand:â€‰ Reminiscence of Heme Chemistry. Inorganic Chemistry, 2006, 45, 10347-10354.	4.0	33
111	Synthesis and Assessment of CO-Release Capacity of Manganese Carbonyl Complexes Derived from Rigid Î±-Diimine ÂLigands of Varied Complexity. European Journal of Inorganic Chemistry, 2015, 2015, 5021-5026.	2.0	33
112	Light-assisted and remote delivery of carbon monoxide to malignant cells and tissues: Photochemotherapy in the spotlight. Journal of Photochemistry and Photobiology C: Photochemistry Reviews, 2020, 42, 100341.	11.6	33
113	Accelerated Photorelease of NO from {Ru-NO}⁶ Nitrosyls Containing Carboxamido-N and Carboxylato-O Donors: Syntheses, Structures, and Photochemistry. Inorganic Chemistry, 2009, 48, 1490-1497.	4.0	32
114	Nickel(II) complexes with the [NiNxSey] chromophore in different coordination geometries: search for a model of the active site of [FeNiSe] hydrogenases. Inorganic Chemistry, 1992, 31, 2999-3000.	4.0	31
115	Light-induced inhibition of papain by a {Mnâ€“NO}6 nitrosyl: Identification of papainâ€“SNO adduct by mass spectrometry. Journal of Inorganic Biochemistry, 2005, 99, 1458-1464.	3.5	30
116	Binding of Nitric Oxide to a Synthetic Model of Iron-Containing Nitrile Hydratase (Fe-NHase) and Its Photorelease: Relevance to Photoregulation of Fe-NHase by NO. Inorganic Chemistry, 2010, 49, 1854-1864.	4.0	30
117	Photoinduced DNA Cleavage Reactions by Designed Analogues of Co(III)â^'Bleomycin:Â The Metalated Core Is the Primary Determinant of Sequence Specificity. Inorganic Chemistry, 1996, 35, 2637-2643.	4.0	29
118	Photoactive ruthenium nitrosyls derived from quinoline- and pyridine-based ligands: Accelerated photorelease of NO due to quinoline ligation. Polyhedron, 2007, 26, 4713-4718.	2.2	28
119	Mononuclear nickel(II) thiolates of square-planar geometry: syntheses, spectral and redox properties of [Ni(SCH2CH2S)2]2â^' and [Ni(SCH(CH3)CH(CH3)S)2]2â^' and the structure of (Ph4P)2[Ni(SCH2CH2S)2]Â·4H2O. Inorganica Chimica Acta, 1990, 177, 233-238.	2.4	27
120	The Secondary Amine Group of Bleomycin Is Not Involved in Intramolecular Hydrogen Bonding in "Activated Bleomycin". Inorganic Chemistry, 1994, 33, 2838-2840.	4.0	27
121	Mesoporous silica materials and nanoparticles as carriers for controlled and site-specific delivery of gaseous signaling molecules. Microporous and Mesoporous Materials, 2016, 234, 409-419.	4.4	27
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