Howard H Patterson

List of Publications by Year
in descending order

100 papers	4,044 citations	109321 35 h-index	123424 61 g-index
100 all docs	100 docs citations	100 times ranked	3330 citing authors

#	Article	IF	Citations
1	Crystal Structure, Electronic Structure, and Temperature-Dependent Raman Spectra of Tl[Ag(CN)2]:Â Evidence for Ligand-Unsupported Argentophilic Interactions. Inorganic Chemistry, 1998, 37, 1380-1386.	4.0	243
2	Oligomerization of Au(CN)2-and Ag(CN)2-Ions in Solution via Ground-State Aurophilic and Argentophilic Bonding. Journal of the American Chemical Society, 2000, 122, 10371-10380.	13.7	239
3	Excited-State Interactions for [Au(CN)2-]n and [Ag(CN)2-]n Oligomers in Solution. Formation of Luminescent Goldâ^'Gold Bonded Excimers and Exciplexes. Journal of the American Chemical Society, 2001, 123, 11237-11247.	13.7	233
4	Preparation and Characterization of the Cu+/ZSM-5 Catalyst and Its Reaction with NO under UV Irradiation at 275 K. In situ Photoluminescence, EPR, and FT-IR Investigations. The Journal of Physical Chemistry, 1994, 98, 5744-5750.	2.9	191
5	Recent advances on TiO₂-based photocatalysts toward the degradation of pesticides and major organic pollutants from water bodies. Catalysis Reviews - Science and Engineering, 2020, 62, 1-65.	12.9	166
6	Photodecomposition of the Carbamate Pesticide Carbofuran:Â Kinetics and the Influence of Dissolved Organic Matter. Environmental Science & Technology, 1999, 33, 874-881.	10.0	137
7	Syntheses, Structure, and Photoluminescence Properties of the 1-Dimensional Chain Compounds [(TPA)2Au][Au(CN)2] and (TPA)AuCl (TPA = 1,3,5-Triaza-7-phosphaadamantane). Inorganic Chemistry, 2002, 41, 6274-6280.	4.0	135
8	Luminescent Homoatomic Exciplexes in Dicyanoargentate(I) Ions Doped in Alkali Halide Crystals. 1. â€œExciplex Tuningâ€•by Site-Selective Excitation. Journal of the American Chemical Society, 1998, 120, 7696-7705.	13.7	123
9	Characterization of BiOX compounds as photocatalysts for the degradation of pharmaceuticals in water. Applied Catalysis B: Environmental, 2015, 179, 229-238.	20.2	94
10	Temperature-Dependent Photoluminescence Properties of Tl[Ag(CN)2]:Â Formation of Luminescent Metalâ^'Metal-Bonded Inorganic Exciplexes in the Solid State. Inorganic Chemistry, 1998, 37, 1060-1066.	4.0	91
11	Copper(I) Cyanide Networks: Synthesis, Structure, and Luminescence Behavior. Part 2. Piperazine Ligands and Hexamethylenetetramine. Inorganic Chemistry, 2008, 47, 6931-6947.	4.0	89
12	Photoluminescence studies of lanthanide ion complexes of gold and silver dicyanides: a new low-dimensional solid state class for nonradiative excited-state energy transfer. Inorganic Chemistry, 1994, 33, 2187-2195.	4.0	80
13	Photocatalytic degradation of 17Î±-ethinylestradiol (EE2) in the presence of TiO2-doped zeolite. Journal of Hazardous Materials, 2014, 279, 17-25.	12.4	80
14	Tunable Energy Transfer from Dicyanoaurate(I) and Dicyanoargentate(I) Donor Ions to Terbium(III) Acceptor Ions in Pure Crystals. Inorganic Chemistry, 2000, 39, 4527-4534.	4.0	75
15	Structure, Dynamics, and Photophysics in the Copper(I) Iodideâ€“Tetrahydrothiophene System. Crystal Growth and Design, 2014, 14, 1449-1458.	3.0	71
16	Luminescent homoatomic exciplexes in dicyanoargenate(I) ions doped in alkali halide crystals. â€˜Exciplex tuningâ€™ by site-selective excitation and variation of the dopant concentration. Coordination Chemistry Reviews, 2000, 208, 227-241.	18.8	70
17	Photocatalytic degradation of ibuprofen over BiOCl nanosheets with identification of intermediates. Journal of Hazardous Materials, 2018, 358, 1-9.	12.4	70
18	Network formation and photoluminescence in copper(i) halide complexes with substituted piperazine ligands. Dalton Transactions, 2012, 41, 11663.	3.3	65

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19	Characterization of the Excited States Responsible for the Action of Silver(I)-Doped ZSM-5 Zeolites as Photocatalysts for Nitric Oxide Decomposition. Journal of Physical Chemistry B, 2000, 104, 3507-3517.	2.6	63
20	Reversible luminescent reaction of amines with copper(i) cyanide. Chemical Communications, 2010, 46, 4565.	4.1	59
21	Effects of Disturbance and Soil Amendments on Dissolved Organic Carbon and Organic Acidity in Red Pine Forest Floors. Journal of Environmental Quality, 1992, 21, 457-463.	2.0	55
22	Photophysical Properties of Ag(I)-exchanged Zeolite A and the Photoassisted Degradation of Malathion. Journal of Physical Chemistry B, 2001, 105, 7508-7516.	2.6	55
23	Copper(I) Thiocyanate-Amine Networks: Synthesis, Structure, and Luminescence Behavior.. Inorganic Chemistry, 2011, 50, 7239-7249.	4.0	55
24	Luminescence Thermochromism in Dicyanoargentate(I) Ions Doped in Alkali Halide Crystals. Journal of Physical Chemistry B, 2000, 104, 6143-6151.	2.6	52
25	A spectrofluorimetric study of the binding of carbofuran, carbaryl, and aldicarb with dissolved organic matter. Analytica Chimica Acta, 1998, 373, 139-151.	5.4	50
26	Photophysics of Bis(thiocyanato)gold(I) Complexes:â€‰Intriguing Structureâ^'Luminescence Relationships. Journal of Physical Chemistry C, 2007, 111, 10689-10699.	3.1	47
27	Luminescent Homoatomic Exciplexes in Dicyanoargentate(I) Ions Doped in Alkali Halide Crystals. 2. â€œExciplex Tuningâ€•by Varying the Dopant Concentration. Journal of Physical Chemistry B, 1999, 103, 3845-3853.	2.6	45
28	Metallophilic Interactions in Closed-Shell d10Metalâ^'Metal Dicyanide Bonded Luminescent Systems Eu[AgxAu1-x(CN)2]3and Their Tunability for Excited State Energy Transfer. Journal of Physical Chemistry B, 2005, 109, 102-109.	2.6	44
29	Nanoclusters of silver doped in zeolites as photocatalysts. Catalysis Today, 2007, 120, 168-173.	4.4	42
30	Tunable Radiationless Energy Transfer in Eu[Au(CN)2]3Â·3H2O by High Pressure. Inorganic Chemistry, 1998, 37, 3209-3216.	4.0	41
31	Structural studies of lanthanide ion complexes of pure gold, pure silver and mixed metal (goldâ€“silver) dicyanides. Dalton Transactions, 2005, , 675-679.	3.3	39
32	Tunable Photoluminescence of Closed-Shell Heterobimetallic Auâ^'Ag Dicyanide Layered Systems. Journal of Physical Chemistry B, 2005, 109, 4317-4323.	2.6	38
33	Excitation resolved synchronous fluorescence analysis of aromatic compounds and fuel oil. Analytical Chemistry, 1987, 59, 2180-2187.	6.5	37
34	Confirmation of the presence of imine bonds in thermally cured polyimides. Journal of Polymer Science Part A, 1993, 31, 2751-2758.	2.3	37
35	Photoluminescence and Raman Spectroscopy as Probes to Investigate Silver and Gold Dicyanide Clusters Doped in A-Zeolite and Their Photoassisted Degradation of Carbaryl. Journal of Physical Chemistry B, 2001, 105, 9441-9448.	2.6	37
36	Synthesis, Structure, and Luminescence of Copper(I) Halide Complexes of Chiral Bis(phosphines). Inorganic Chemistry, 2017, 56, 12809-12820.	4.0	37

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37	Spectroscopic Studies of â€œExciplex Tuningâ€•for Dicyanoaurate(I) Ions Doped in Potassium Chloride Crystals. Journal of Physical Chemistry B, 2002, 106, 10058-10064.	2.6	36
38	Structure and luminescence of copper(I) cyanideâ€“amine and â€“sulfide networks. Inorganica Chimica Acta, 2010, 364, 102-114.	2.4	36
39	Photoluminescence spectroscopy as a probe of silver doped zeolites as photocatalysts. Current Opinion in Solid State and Materials Science, 2003, 7, 443-449.	11.5	35
40	Alkali metal bismuth(III) chloride double salts. Journal of Alloys and Compounds, 2016, 670, 337-345.	5.5	33
41	Photoluminescence studies of lanthanide ion complexes of gold and silver dicyanides. 2. A new low dimensional solid state class for nonradiative excited state energy transfer. Inorganic Chemistry, 1994, 33, 6194-6200.	4.0	29
42	Luminescence properties of silver(I)-exchanged zeolite Y and its use as a catalyst to photodecompose carbaryl in the presence of natural organic matter. Research on Chemical Intermediates, 2003, 29, 691-704.	2.7	28
43	Photodecomposition of Carbaryl in the Presence of Silver-Doped Zeolite Y and Suwannee River Natural Organic Matter. Environmental Science & Technology, 2003, 37, 2280-2285.	10.0	28
44	Iodobismuthate(III) and Iodobismuthate(III)/Iodocuprate(I) Complexes with Organic Ligands. European Journal of Inorganic Chemistry, 2017, 2017, 4990-5000.	2.0	28
45	Multiple state luminescence for the d4OsCl62-impurity ion in K2PtCl6and Cs2ZrCl6cubic crystals. Molecular Physics, 1978, 35, 1623-1636.	1.7	26
46	Application of BiOX Photocatalysts in Remediation of Persistent Organic Pollutants. Catalysts, 2018, 8, 604.	3.5	26
47	Structure and Emissive Properties of Heterobimetallic Lnâ€“Au Coordination Polymers: Role of Tb and Eu in Non-aurophilic [ⁿBu₄N]₂[Ln(NO₃)₄Au(CN)₂] versus Aurophilic Ln[Au(CN)₂]₃Â·3H₂O/3D₂O Chains. Inorganic Chemistry, 2014, 53, 7571-7579.	4.0	25
48	Silver nanoclusters doped in X and mordenite zeolites as heterogeneous catalysts for the decomposition of carbamate pesticides in solution. Research on Chemical Intermediates, 2006, 32, 871-885.	2.7	24
49	Changes in Electronic Properties of Polymeric One-Dimensional {[M(CN)₂]^{â^'}}_n (M = Au, Ag) Chains Due to Neighboring Closed-Shell Zn(II) or Open-Shell Cu(II) Ions. Inorganic Chemistry, 2011, 50, 231-237.	4.0	24
50	Observation of a Mixed-Metal Transition in Heterobimetallic Au/Ag Dicyanide Systems. Inorganic Chemistry, 2007, 46, 6997-7004.	4.0	23
51	Heterobimetallic lanthanideâ€“gold coordination polymers: structure and emissive properties of isomorphous [nBu4N]2[Ln(NO3)4Au(CN)2] 1-D chains. Dalton Transactions, 2012, 41, 6992.	3.3	23
52	Amine- and sulfide-sensing copper(I) iodide films. Inorganic Chemistry Communication, 2014, 40, 18-21.	3.9	22
53	The role of Copper (II) ions in Cu-BiOCl for use in the photocatalytic degradation of atrazine. Journal of Environmental Chemical Engineering, 2018, 6, 5595-5601.	6.7	22
54	A Review of Luminescent Anionic Nano System: d10 Metallocyanide Excimers and Exciplexes in Alkali Halide Hosts. Materials, 2013, 6, 2595-2611.	2.9	21

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55	Tunable energy transfer between <mml:math altimg="si1.gif" display="inline" overflow="scroll" xmlns:xocs="http://www.elsevier.com/xml/xocs/dtd" xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://www.elsevier.com/xml/ja/dtd" xmlns:ja="http://www.elsevier.com/xml/ja/dtd" xmlns:mml="http://www.w3.org/1998/Math/MathML" xmlns:tb="http://www.elsevier.com/xml/common/table/dtd" xmlns:sb="http://www.elsevier.com/xml/common/struct-bib/dtd" xmlns:ce="http://... Chemical Physics	2.6	19
56	A study of the effect of microwave treatment on metal zeolites and their use as photocatalysts toward naptalam. Applied Catalysis B: Environmental, 2011, 106, 350-358.	20.2	19
57	A terbium chlorobismuthate(III) double salt: Synthesis, structure, and photophysical properties. Inorganica Chimica Acta, 2018, 478, 71-76.	2.4	19
58	Alkyl Pyridinium Iodocuprate(I) Clusters: Structural Types and Charge Transfer Behavior. ACS Omega, 2018, 3, 15281-15292.	3.5	18
59	Effect of high pressure on the emission spectrum of single crystals of Tl[Au(CN)2]. Chemical Physics Letters, 1998, 295, 95-98.	2.6	17
60	Tunable energy transfer from d10 heterobimetallic dicyanide(I) donor ions to terbium(III) acceptor ions in luminescent Tb[AgxAu1â^'x(CN)2]3 (x=0â†'1). Chemical Physics Letters, 2007, 443, 55-60.	2.6	16
61	Spectroscopic studies of new model compounds for poly[N,N-bis(phenoxyphenyl)pyromellitimide]. Journal of Polymer Science Part A, 1992, 30, 419-427.	2.3	15
62	Optical Memory and Multistep Luminescence Thermochromism in Single Crystals of K2Na[Ag(CN)2]3. Inorganic Chemistry, 2007, 46, 3798-3800.	4.0	15
63	Solvent dependent tunable energy transfer of d10 metal dicyanide nanoclusters with Eu3+ and Tb3+ rare earth ions. Chemical Physics Letters, 2007, 445, 340-344.	2.6	15
64	Sharp-line absorption, luminescence, Raman studies for the 5d3hexafluororhenate(IV) ion in pure and host crystal environments. Molecular Physics, 1980, 40, 1401-1420.	1.7	14
65	Zeolite-supported silver and silverâ€“iron nanoclusters and their activities as photodecomposition catalysts. Research on Chemical Intermediates, 2011, 37, 729-745.	2.7	14
66	Photophysical Investigation of Silver/Gold Dicyanometallates and Tetramethylammonium Networks: An Experimental and Theoretical Investigation. European Journal of Inorganic Chemistry, 2019, 2019, 956-962.	2.0	14
67	Light-induced electron transfer in lead(II)gold(I) dicyanide. Inorganica Chimica Acta, 1994, 226, 345-348.	2.4	13
68	Photoluminescence and Electronic Structure Studies to Probe Metal-Metal Interactions in Thallium Dicyanoargentate(I): A New Low Dimensional Solid State Class. Molecular Crystals and Liquid Crystals, 1996, 284, 399-409.	0.3	13
69	Photophysical Properties of {[Au(CN)₂]^{â^'}}₂ Dimers Trapped in a Supramolecular Electron-Acceptor Organic Framework. Inorganic Chemistry, 2012, 51, 1294-1301.	4.0	13
70	Ce/Au(CN)₂^{â€“}â€Based Coordination Polymers Containing and Lacking Aurophilic Interactions. European Journal of Inorganic Chemistry, 2016, 2016, 2082-2087.	2.0	13
71	Luminescence and absorption study of delocalized and localized electronic states in quasi-one-dimensional mixed metal Ba(Pt, Pd)(CN)4and Ba(Pt, Ni)(CN)4systems. Molecular Physics, 1983, 48, 567-579.	1.7	12
72	Site-Selective Excitation of â€œExciplex Tuningâ€•for Luminescent Nanoclusters of Dicyanoargentate(I) Ions Doped in Different Alkali Halide Crystals. Journal of Physical Chemistry C, 2010, 114, 17401-17408.	3.1	12

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73	An Unusual Luminescent Anionic Copper(I) System: Dicyanocuprate(I) Ion in Nano and Bulky States. Journal of Physical Chemistry C, 2012, 116, 26656-26667.	3.1	12
74	Heterogeneous Photocatalysis with Nanoclusters of D¹⁰Metal Ions Doped in Zeolites. Comments on Inorganic Chemistry, 2015, 35, 59-81.	5.2	12
75	Photocatalysis of fenoxycarb over silver-modified zeolites. Environmental Science and Pollution Research, 2015, 22, 3186-3192.	5.3	12
76	â€œWrite/Read/Eraseâ€•with Laser Irradiation of Dicyanoargentate(I) Doped and Pure Crystals. Journal of Physical Chemistry B, 2003, 107, 14249-14254.	2.6	11
77	Luminescence and simulation of mixed metal nanoclusters of dicyanoargentate(I) and dicyanoaurate(I) in alkali halides. Inorganica Chimica Acta, 2011, 370, 279-285.	2.4	11
78	Synthesis and characterization of (RPh3P)3[Bi3I12] (Râ€‰=â€‰Me, Ph) iodobismuthate complexes for photocatalytic degradation of organic pollutants. Research on Chemical Intermediates, 2019, 45, 5919-5933.	2.7	11
79	Study of the energy transfer process in the highly luminescent heterometallic dimers of Ce3+ and d10 [Ag(CN)2]â^' or d8 [Pt(CN)4]2â^' ions. Chemical Physics Letters, 2009, 471, 258-263.	2.6	10
80	Structure, Luminescence, and Vapochromism of Bridged Cationic Copper(I) Dimers and Polymers. Journal of Inorganic and Organometallic Polymers and Materials, 2014, 24, 66-77.	3.7	10
81	Photophysical properties of {[Ag(CN)₂]^{â^'}}₂complexes trapped in a supramolecular electron-acceptor organic framework. Dalton Transactions, 2014, 43, 12044.	3.3	10
82	Light-induced electron transfer in Tl[Ag(CN)2]: Photochemical reaction of luminescent metalâ€“metal exciplexes in the solid state. Inorganica Chimica Acta, 2000, 300-302, 314-318.	2.4	8
83	Luminescent Studies of â€œExciplex Tuningâ€•for Nanoclusters of Dicyanocuprate(I) Ions Doped in Potassium Chloride Crystals. Journal of Physical Chemistry C, 2009, 113, 5952-5959.	3.1	8
84	Novel Luminescent Heterobimetallic Nanoclusters of Copper(I), Silver(I), and Gold(I) Doped in Different Alkali Halide Crystals. Journal of Physical Chemistry C, 2014, 118, 11886-11894.	3.1	8
85	Laser-excited luminescence and absorption study of monomer and cluster tetracyanopalladate(II) species in mixed crystals. Inorganic Chemistry, 1981, 20, 3493-3499.	4.0	7
86	Observation of a mixed-metal transition in a d8â€“d10 heterobimetallic Ptâ€“Ag cyanide system: Experimental and theoretical study. Inorganica Chimica Acta, 2010, 363, 2637-2642.	2.4	7
87	Tetragonal Diiodotetrapyridinedicopper(I): Structure, Luminescence, and Computational Modeling. Journal of Inorganic and Organometallic Polymers and Materials, 2017, 27, 90-100.	3.7	7
88	Synthesis, structure and photophysical properties of a 2D network with gold dicyanide donors coordinated to aza[5]helicene viologen acceptors. Dalton Transactions, 2019, 48, 10288-10297.	3.3	7
89	Enhancement of the Water Solubility of Organic Pollutants Such as Pyrene by Dissolved Organic Matter. ACS Symposium Series, 1996, , 288-298.	0.5	6
90	A fluorescence double-quenching study of native lipoproteins in an animal model of manganese deficiency. Biological Trace Element Research, 1997, 60, 69-80.	3.5	6

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91	Light-Induced Photochemical Changes in Copper(I) Thiocyanate Complexes Decorated with Halopyridines: Optical Memory Manifestation. Journal of Physical Chemistry C, 2017, 121, 25430-25439.	3.1	6
92	Luminescence Investigation of Samarium(III)/Dicyanoaurate(I)-based Coordination Networks with and without Aurophilic Interactions. Gold Bulletin, 2018, 51, 1-10.	2.4	6
93	Triphenylphosphane Oxide Complexes of Lanthanide Nitrates: Polymorphs and Photophysics. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2018, 644, 525-533.	1.2	6
94	Host lattice effects on the design of different metallophilic nanoclusters with novel photonic properties. Inorganica Chimica Acta, 2018, 471, 40-49.	2.4	5
95	Synthesis and Luminescence of Optical Memory Active Tetramethylammonium Cyanocuprate(I) 3D Networks. Materials, 2019, 12, 1211.	2.9	4
96	Kinetics and equilibrium properties of the biosorption of Cu2+ by algae. Environmental Science and Pollution Research, 2012, 19, 3889-3894.	5.3	3
97	Crystal Structure and Computational Analysis of a Two-Dimensional Coordination Polymer, BiI3(DppeO2)3/2. Journal of Inorganic and Organometallic Polymers and Materials, 2018, 28, 528-534.	3.7	3
98	Triphenylarsane Oxide Complexes of Lanthanide Nitrates: Polymorphs and Photophysics. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2019, 645, 1043-1051.	1.2	1
99	Nanoclusters of Dicyanocuprate(I) Anions in Aqueous Solutions: Investigating Cuprophilic Interactions. ChemistrySelect, 2019, 4, 6532-6536.	1.5	1
100	Energy transfer studies between mixed Au-Pd cyanide nanosystems and Tb+3 doped in different alkali halides. Journal of Photochemistry and Photobiology A: Chemistry, 2020, 389, 112136.	3.9	1