

# Howard H Patterson

## List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Recent advances on TiO <sub>2</sub> -based photocatalysts toward the degradation of pesticides and major organic pollutants from water bodies. <i>Catalysis Reviews - Science and Engineering</i> , 2020, 62, 1-65.	12.9	166
2	Energy transfer studies between mixed Au-Pd cyanide nanosystems and Tb <sup>3+</sup> doped in different alkali halides. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2020, 389, 112136.	3.9	1
3	Triphenylarsane Oxide Complexes of Lanthanide Nitrates: Polymorphs and Photophysics. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2019, 645, 1043-1051.	1.2	1
4	Nanoclusters of Dicyanocuprate(I) Anions in Aqueous Solutions: Investigating Cuprophilic Interactions. <i>ChemistrySelect</i> , 2019, 4, 6532-6536.	1.5	1
5	Synthesis and characterization of (RPh <sub>3</sub> P) <sub>3</sub> [Bi <sub>3</sub> I <sub>12</sub> ] (R = Me, Ph) iodobismuthate complexes for photocatalytic degradation of organic pollutants. <i>Research on Chemical Intermediates</i> , 2019, 45, 5919-5933.	2.7	11
6	Synthesis, structure and photophysical properties of a 2D network with gold dicyanide donors coordinated to aza[5]helicene viologen acceptors. <i>Dalton Transactions</i> , 2019, 48, 10288-10297.	3.3	7
7	Synthesis and Luminescence of Optical Memory Active Tetramethylammonium Cyanocuprate(I) 3D Networks. <i>Materials</i> , 2019, 12, 1211.	2.9	4
8	Photophysical Investigation of Silver/Gold Dicyanometallates and Tetramethylammonium Networks: An Experimental and Theoretical Investigation. <i>European Journal of Inorganic Chemistry</i> , 2019, 2019, 956-962.	2.0	14
9	Crystal Structure and Computational Analysis of a Two-Dimensional Coordination Polymer, Bi <sub>3</sub> (DppeO <sub>2</sub> ) <sub>3</sub> /2. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2018, 28, 528-534.	3.7	3
10	Luminescence Investigation of Samarium(III)/Dicyanoaurate(I)-based Coordination Networks with and without Aurophilic Interactions. <i>Gold Bulletin</i> , 2018, 51, 1-10.	2.4	6
11	A terbium chlorobismuthate(III) double salt: Synthesis, structure, and photophysical properties. <i>Inorganica Chimica Acta</i> , 2018, 478, 71-76.	2.4	19
12	Host lattice effects on the design of different metallophilic nanoclusters with novel photonic properties. <i>Inorganica Chimica Acta</i> , 2018, 471, 40-49.	2.4	5
13	Alkyl Pyridinium Iodocuprate(I) Clusters: Structural Types and Charge Transfer Behavior. <i>ACS Omega</i> , 2018, 3, 15281-15292.	3.5	18
14	Application of BiOX Photocatalysts in Remediation of Persistent Organic Pollutants. <i>Catalysts</i> , 2018, 8, 604.	3.5	26
15	Triphenylphosphane Oxide Complexes of Lanthanide Nitrates: Polymorphs and Photophysics. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2018, 644, 525-533.	1.2	6
16	The role of Copper (II) ions in Cu-BiOCl for use in the photocatalytic degradation of atrazine. <i>Journal of Environmental Chemical Engineering</i> , 2018, 6, 5595-5601.	6.7	22
17	Photocatalytic degradation of ibuprofen over BiOCl nanosheets with identification of intermediates. <i>Journal of Hazardous Materials</i> , 2018, 358, 1-9.	12.4	70
18	Iodobismuthate(III) and Iodobismuthate(III)/Iodocuprate(I) Complexes with Organic Ligands. <i>European Journal of Inorganic Chemistry</i> , 2017, 2017, 4990-5000.	2.0	28

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19	Synthesis, Structure, and Luminescence of Copper(I) Halide Complexes of Chiral Bis(phosphines). <i>Inorganic Chemistry</i> , 2017, 56, 12809-12820.	4.0	37
20	Tetragonal Diiodotetrapyridinedicopper(I): Structure, Luminescence, and Computational Modeling. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2017, 27, 90-100.	3.7	7
21	Light-Induced Photochemical Changes in Copper(I) Thiocyanate Complexes Decorated with Halopyridines: Optical Memory Manifestation. <i>Journal of Physical Chemistry C</i> , 2017, 121, 25430-25439.	3.1	6
22	Ce/Au(CN) <sub>2</sub> ‐Based Coordination Polymers Containing and Lacking Aurophilic Interactions. <i>European Journal of Inorganic Chemistry</i> , 2016, 2016, 2082-2087.	2.0	13
23	Alkali metal bismuth(III) chloride double salts. <i>Journal of Alloys and Compounds</i> , 2016, 670, 337-345.	5.5	33
24	Characterization of BiOX compounds as photocatalysts for the degradation of pharmaceuticals in water. <i>Applied Catalysis B: Environmental</i> , 2015, 179, 229-238.	20.2	94
25	Heterogeneous Photocatalysis with Nanoclusters of D <sup>10</sup> Metal Ions Doped in Zeolites. <i>Comments on Inorganic Chemistry</i> , 2015, 35, 59-81.	5.2	12
26	Photocatalysis of fenoxycarb over silver-modified zeolites. <i>Environmental Science and Pollution Research</i> , 2015, 22, 3186-3192.	5.3	12
27	Structure, Luminescence, and Vapochromism of Bridged Cationic Copper(I) Dimers and Polymers. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2014, 24, 66-77.	3.7	10
28	Structure, Dynamics, and Photophysics in the Copper(I) Iodide‐Tetrahydrothiophene System. <i>Crystal Growth and Design</i> , 2014, 14, 1449-1458.	3.0	71
29	Novel Luminescent Heterobimetallic Nanoclusters of Copper(I), Silver(I), and Gold(I) Doped in Different Alkali Halide Crystals. <i>Journal of Physical Chemistry C</i> , 2014, 118, 11886-11894.	3.1	8
30	Photophysical properties of {[Ag(CN) <sub>2</sub> ] <sup>+</sup> ] <sub>2</sub> complexes trapped in a supramolecular electron-acceptor organic framework. <i>Dalton Transactions</i> , 2014, 43, 12044.	3.3	10
31	Photocatalytic degradation of 17 $\beta$ -ethinylestradiol (EE2) in the presence of TiO <sub>2</sub> -doped zeolite. <i>Journal of Hazardous Materials</i> , 2014, 279, 17-25.	12.4	80
32	Amine- and sulfide-sensing copper(I) iodide films. <i>Inorganic Chemistry Communication</i> , 2014, 40, 18-21.	3.9	22
33	Structure and Emissive Properties of Heterobimetallic Ln‐Au Coordination Polymers: Role of Tb and Eu in Non-aurophilic [ <sup>n</sup> Bu <sub>4</sub> N] <sub>2</sub> [Ln(NO <sub>3</sub> ) <sub>3</sub> ] <sub>4</sub> Au(CN) <sub>2</sub> versus Aurophilic Ln[Au(CN) <sub>2</sub> ] <sub>3</sub> ‐3H <sub>2</sub> O/3D <sub>2</sub> O Chains. <i>Inorganic Chemistry</i> , 2014, 53, 7571-7579.	4.0	25
34	A Review of Luminescent Anionic Nano System: d10 Metalloacyanide Excimers and Exciplexes in Alkali Halide Hosts. <i>Materials</i> , 2013, 6, 2595-2611.	2.9	21
35	Kinetics and equilibrium properties of the biosorption of Cu <sup>2+</sup> by algae. <i>Environmental Science and Pollution Research</i> , 2012, 19, 3889-3894.	5.3	3
36	Photophysical Properties of {[Au(CN) <sub>2</sub> ] <sup>+</sup> ] <sub>2</sub> Dimers Trapped in a Supramolecular Electron-Acceptor Organic Framework. <i>Inorganic Chemistry</i> , 2012, 51, 1294-1301.	4.0	13

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37	An Unusual Luminescent Anionic Copper(I) System: Dicyanocuprate(I) Ion in Nano and Bulky States. <i>Journal of Physical Chemistry C</i> , 2012, 116, 26656-26667.	3.1	12
38	Network formation and photoluminescence in copper(i) halide complexes with substituted piperazine ligands. <i>Dalton Transactions</i> , 2012, 41, 11663.	3.3	65
39	Heterobimetallic lanthanide-gold coordination polymers: structure and emissive properties of isomorphous $[nBu_4N]_2[Ln(NO_3)_4Au(CN)_2]$ 1-D chains. <i>Dalton Transactions</i> , 2012, 41, 6992.	3.3	23
40	Changes in Electronic Properties of Polymeric One-Dimensional $\{[M(CN)_2]^{2+}\}_n$ (M = Au, Ag) Chains Due to Neighboring Closed-Shell Zn(II) or Open-Shell Cu(II) Ions. <i>Inorganic Chemistry</i> , 2011, 50, 231-237.	4.0	24
41	Copper(I) Thiocyanate-Amine Networks: Synthesis, Structure, and Luminescence Behavior.. <i>Inorganic Chemistry</i> , 2011, 50, 7239-7249.	4.0	55
42	Zeolite-supported silver and silver-iron nanoclusters and their activities as photodecomposition catalysts. <i>Research on Chemical Intermediates</i> , 2011, 37, 729-745.	2.7	14
43	Luminescence and simulation of mixed metal nanoclusters of dicyanoargentate(I) and dicyanoaurate(I) in alkali halides. <i>Inorganica Chimica Acta</i> , 2011, 370, 279-285.	2.4	11
44	A study of the effect of microwave treatment on metal zeolites and their use as photocatalysts toward naptalam. <i>Applied Catalysis B: Environmental</i> , 2011, 106, 350-358.	20.2	19
45	Observation of a mixed-metal transition in a $d_8-d_{10}$ heterobimetallic Pt-Ag cyanide system: Experimental and theoretical study. <i>Inorganica Chimica Acta</i> , 2010, 363, 2637-2642.	2.4	7
46	Structure and luminescence of copper(I) cyanide-amine and -sulfide networks. <i>Inorganica Chimica Acta</i> , 2010, 364, 102-114.	2.4	36
47	Reversible luminescent reaction of amines with copper(i) cyanide. <i>Chemical Communications</i> , 2010, 46, 4565.	4.1	59
48	Site-Selective Excitation of $\pi$ -Exciplex Tuning for Luminescent Nanoclusters of Dicyanoargentate(I) Ions Doped in Different Alkali Halide Crystals. <i>Journal of Physical Chemistry C</i> , 2010, 114, 17401-17408.	3.1	12
49	Study of the energy transfer process in the highly luminescent heterometallic dimers of $Ce^{3+}$ and $d_{10}$ $[Ag(CN)_2]^-$ or $d_8$ $[Pt(CN)_4]^{2-}$ ions. <i>Chemical Physics Letters</i> , 2009, 471, 258-263.	2.6	10
50	Luminescent Studies of $\pi$ -Exciplex Tuning for Nanoclusters of Dicyanocuprate(I) Ions Doped in Potassium Chloride Crystals. <i>Journal of Physical Chemistry C</i> , 2009, 113, 5952-5959.	3.1	8
51	Copper(I) Cyanide Networks: Synthesis, Structure, and Luminescence Behavior. Part 2. Piperazine Ligands and Hexamethylenetetramine. <i>Inorganic Chemistry</i> , 2008, 47, 6931-6947.	4.0	89
52	Optical Memory and Multistep Luminescence Thermochromism in Single Crystals of $K_2Na[Ag(CN)_2]_3$ . <i>Inorganic Chemistry</i> , 2007, 46, 3798-3800.	4.0	15
53	Photophysics of Bis(thiocyanato)gold(I) Complexes: Intriguing Structure-Luminescence Relationships. <i>Journal of Physical Chemistry C</i> , 2007, 111, 10689-10699.	3.1	47
54	Observation of a Mixed-Metal Transition in Heterobimetallic Au/Ag Dicyanide Systems. <i>Inorganic Chemistry</i> , 2007, 46, 6997-7004.	4.0	23

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55	energy transfer between $\langle \text{mml:math altimg="si1.gif" display="inline" overflow="scroll" xmlns:xocs="http://www.elsevier.com/xml/xocs/dtd" xmlns:xs="http://www.w3.org/2001/XMLSchema-instance" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://www.elsevier.com/xml/ja/dtd" xmlns:ja="http://www.elsevier.com/xml/ja/dtd" xmlns:mml="http://www.w3.org/1998/Math/MathML" xmlns:tb="http://www.elsevier.com/xml/common/table/dtd" xmlns:tbl_struct="http://www.elsevier.com/xml/common/struct-bib/dtd" xmlns:ce="http:// Chemical Physics$	2.6	19
56	Tunable energy transfer from d10 heterobimetallic dicyanide(I) donor ions to terbium(III) acceptor ions in luminescent $\text{Tb}[\text{Ag}_x\text{Au}_{1-x}(\text{CN})_2]_3$ ( $x=0\text{--}1$ ). <i>Chemical Physics Letters</i> , 2007, 443, 55-60.	2.6	16
57	Solvent dependent tunable energy transfer of d10 metal dicyanide nanoclusters with $\text{Eu}^{3+}$ and $\text{Tb}^{3+}$ rare earth ions. <i>Chemical Physics Letters</i> , 2007, 445, 340-344.	2.6	15
58	Nanoclusters of silver doped in zeolites as photocatalysts. <i>Catalysis Today</i> , 2007, 120, 168-173.	4.4	42
59	Silver nanoclusters doped in X and mordenite zeolites as heterogeneous catalysts for the decomposition of carbamate pesticides in solution. <i>Research on Chemical Intermediates</i> , 2006, 32, 871-885.	2.7	24
60	Structural studies of lanthanide ion complexes of pure gold, pure silver and mixed metal (gold-silver) dicyanides. <i>Dalton Transactions</i> , 2005, , 675-679.	3.3	39
61	Tunable Photoluminescence of Closed-Shell Heterobimetallic $\text{Au}^{\sim}\text{Ag}$ Dicyanide Layered Systems. <i>Journal of Physical Chemistry B</i> , 2005, 109, 4317-4323.	2.6	38
62	Metallophilic Interactions in Closed-Shell d10Metal $\sim$ Metal Dicyanide Bonded Luminescent Systems $\text{Eu}[\text{Ag}_x\text{Au}_{1-x}(\text{CN})_2]_3$ and Their Tunability for Excited State Energy Transfer. <i>Journal of Physical Chemistry B</i> , 2005, 109, 102-109.	2.6	44
63	Luminescence properties of silver(I)-exchanged zeolite Y and its use as a catalyst to photodecompose carbaryl in the presence of natural organic matter. <i>Research on Chemical Intermediates</i> , 2003, 29, 691-704.	2.7	28
64	Write/Read/Erase with Laser Irradiation of Dicyanoargentate(I) Doped and Pure Crystals. <i>Journal of Physical Chemistry B</i> , 2003, 107, 14249-14254.	2.6	11
65	Photodecomposition of Carbaryl in the Presence of Silver-Doped Zeolite Y and Suwannee River Natural Organic Matter. <i>Environmental Science &amp; Technology</i> , 2003, 37, 2280-2285.	10.0	28
66	Photoluminescence spectroscopy as a probe of silver doped zeolites as photocatalysts. <i>Current Opinion in Solid State and Materials Science</i> , 2003, 7, 443-449.	11.5	35
67	Syntheses, Structure, and Photoluminescence Properties of the 1-Dimensional Chain Compounds $[(\text{TPA})_2\text{Au}][\text{Au}(\text{CN})_2]$ and $(\text{TPA})\text{AuCl}$ (TPA = 1,3,5-Triaza-7-phosphaadamantane). <i>Inorganic Chemistry</i> , 2002, 41, 6274-6280.	4.0	135
68	Spectroscopic Studies of Exciplex Tuning for Dicyanoaurate(I) Ions Doped in Potassium Chloride Crystals. <i>Journal of Physical Chemistry B</i> , 2002, 106, 10058-10064.	2.6	36
69	Photophysical Properties of Ag(I)-exchanged Zeolite A and the Photoassisted Degradation of Malathion. <i>Journal of Physical Chemistry B</i> , 2001, 105, 7508-7516.	2.6	55
70	Photoluminescence and Raman Spectroscopy as Probes to Investigate Silver and Gold Dicyanide Clusters Doped in A-Zeolite and Their Photoassisted Degradation of Carbaryl. <i>Journal of Physical Chemistry B</i> , 2001, 105, 9441-9448.	2.6	37
71	Excited-State Interactions for $[\text{Au}(\text{CN})_2]_n$ and $[\text{Ag}(\text{CN})_2]_n$ Oligomers in Solution. Formation of Luminescent Gold-Gold Bonded Excimers and Exciplexes. <i>Journal of the American Chemical Society</i> , 2001, 123, 11237-11247.	13.7	233
72	Luminescent homoatomic exciplexes in dicyanoargentate(I) ions doped in alkali halide crystals. Exciplex tuning by site-selective excitation and variation of the dopant concentration. <i>Coordination Chemistry Reviews</i> , 2000, 208, 227-241.	18.8	70

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73	Light-induced electron transfer in Tl[Ag(CN) <sub>2</sub> ]: Photochemical reaction of luminescent metal-metal exciplexes in the solid state. <i>Inorganica Chimica Acta</i> , 2000, 300-302, 314-318.	2.4	8
74	Luminescence Thermochromism in Dicyanoargentate(I) Ions Doped in Alkali Halide Crystals. <i>Journal of Physical Chemistry B</i> , 2000, 104, 6143-6151.	2.6	52
75	Tunable Energy Transfer from Dicyanoaurate(I) and Dicyanoargentate(I) Donor Ions to Terbium(III) Acceptor Ions in Pure Crystals. <i>Inorganic Chemistry</i> , 2000, 39, 4527-4534.	4.0	75
76	Oligomerization of Au(CN) <sub>2</sub> - and Ag(CN) <sub>2</sub> -Ions in Solution via Ground-State Aurophilic and Argentophilic Bonding. <i>Journal of the American Chemical Society</i> , 2000, 122, 10371-10380.	13.7	239
77	Characterization of the Excited States Responsible for the Action of Silver(I)-Doped ZSM-5 Zeolites as Photocatalysts for Nitric Oxide Decomposition. <i>Journal of Physical Chemistry B</i> , 2000, 104, 3507-3517.	2.6	63
78	Luminescent Homoatomic Exciplexes in Dicyanoargentate(I) Ions Doped in Alkali Halide Crystals. 2. Exciplex Tuning by Varying the Dopant Concentration. <i>Journal of Physical Chemistry B</i> , 1999, 103, 3845-3853.	2.6	45
79	Photodecomposition of the Carbamate Pesticide Carbofuran: Kinetics and the Influence of Dissolved Organic Matter. <i>Environmental Science &amp; Technology</i> , 1999, 33, 874-881.	10.0	137
80	A spectrofluorimetric study of the binding of carbofuran, carbaryl, and aldicarb with dissolved organic matter. <i>Analytica Chimica Acta</i> , 1998, 373, 139-151.	5.4	50
81	Effect of high pressure on the emission spectrum of single crystals of Tl[Au(CN) <sub>2</sub> ]. <i>Chemical Physics Letters</i> , 1998, 295, 95-98.	2.6	17
82	Crystal Structure, Electronic Structure, and Temperature-Dependent Raman Spectra of Tl[Ag(CN) <sub>2</sub> ]: Evidence for Ligand-Unsupported Argentophilic Interactions. <i>Inorganic Chemistry</i> , 1998, 37, 1380-1386.	4.0	243
83	Temperature-Dependent Photoluminescence Properties of Tl[Ag(CN) <sub>2</sub> ]: Formation of Luminescent Metal-Metal-Bonded Inorganic Exciplexes in the Solid State. <i>Inorganic Chemistry</i> , 1998, 37, 1060-1066.	4.0	91
84	Luminescent Homoatomic Exciplexes in Dicyanoargentate(I) Ions Doped in Alkali Halide Crystals. 1. Exciplex Tuning by Site-Selective Excitation. <i>Journal of the American Chemical Society</i> , 1998, 120, 7696-7705.	13.7	123
85	Tunable Radiationless Energy Transfer in Eu[Au(CN) <sub>2</sub> ] <sub>3</sub> ·3H <sub>2</sub> O by High Pressure. <i>Inorganic Chemistry</i> , 1998, 37, 3209-3216.	4.0	41
86	A fluorescence double-quenching study of native lipoproteins in an animal model of manganese deficiency. <i>Biological Trace Element Research</i> , 1997, 60, 69-80.	3.5	6
87	Photoluminescence and Electronic Structure Studies to Probe Metal-Metal Interactions in Thallium Dicyanoargentate(I): A New Low Dimensional Solid State Class. <i>Molecular Crystals and Liquid Crystals</i> , 1996, 284, 399-409.	0.3	13
88	Enhancement of the Water Solubility of Organic Pollutants Such as Pyrene by Dissolved Organic Matter. <i>ACS Symposium Series</i> , 1996, , 288-298.	0.5	6
89	Light-induced electron transfer in lead(II)gold(I) dicyanide. <i>Inorganica Chimica Acta</i> , 1994, 226, 345-348.	2.4	13
90	Preparation and Characterization of the Cu <sup>+</sup> /ZSM-5 Catalyst and Its Reaction with NO under UV Irradiation at 275 K. In situ Photoluminescence, EPR, and FT-IR Investigations. <i>The Journal of Physical Chemistry</i> , 1994, 98, 5744-5750.	2.9	191

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91	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. <i>Inorganic Chemistry</i> , 1994, 33, 6194-6200.	4.0	29
92	Photoluminescence studies of lanthanide ion complexes of gold and silver dicyanides: a new low-dimensional solid state class for nonradiative excited-state energy transfer. <i>Inorganic Chemistry</i> , 1994, 33, 2187-2195.	4.0	80
93	Confirmation of the presence of imine bonds in thermally cured polyimides. <i>Journal of Polymer Science Part A</i> , 1993, 31, 2751-2758.	2.3	37
94	Effects of Disturbance and Soil Amendments on Dissolved Organic Carbon and Organic Acidity in Red Pine Forest Floors. <i>Journal of Environmental Quality</i> , 1992, 21, 457-463.	2.0	55
95	Spectroscopic studies of new model compounds for poly[N,N-bis(phenoxyphenyl)pyromellitimide]. <i>Journal of Polymer Science Part A</i> , 1992, 30, 419-427.	2.3	15
96	Excitation resolved synchronous fluorescence analysis of aromatic compounds and fuel oil. <i>Analytical Chemistry</i> , 1987, 59, 2180-2187.	6.5	37
97	Luminescence and absorption study of delocalized and localized electronic states in quasi-one-dimensional mixed metal Ba(Pt, Pd)(CN) <sub>4</sub> and Ba(Pt, Ni)(CN) <sub>4</sub> systems. <i>Molecular Physics</i> , 1983, 48, 567-579.	1.7	12
98	Laser-excited luminescence and absorption study of monomer and cluster tetracyanopalladate(II) species in mixed crystals. <i>Inorganic Chemistry</i> , 1981, 20, 3493-3499.	4.0	7
99	Sharp-line absorption, luminescence, Raman studies for the 5d <sup>3</sup> hexafluororhenate(IV) ion in pure and host crystal environments. <i>Molecular Physics</i> , 1980, 40, 1401-1420.	1.7	14
100	Multiple state luminescence for the d <sup>4</sup> O <sub>s</sub> Cl <sub>6</sub> <sup>2-</sup> impurity ion in K <sub>2</sub> PtCl <sub>6</sub> and Cs <sub>2</sub> ZrCl <sub>6</sub> cubic crystals. <i>Molecular Physics</i> , 1978, 35, 1623-1636.	1.7	26