

# Ian S Butler

## List of Publications by Citations

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328  
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6,258  
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#	Paper	IF	Citations
328	Bioorganometallic chemistry: a future direction for transition metal organometallic chemistry?. <i>Accounts of Chemical Research</i> , <b>1993</b> , 26, 361-369	24.3	268
327	Catalytic conversion of 5-hydroxymethylfurfural to some value-added derivatives. <i>Green Chemistry</i> , <b>2018</b> , 20, 3657-3682	10	155
326	Transition-metal thiocarbonyls and selenocarbonyls. <i>Accounts of Chemical Research</i> , <b>1977</b> , 10, 359-365	24.3	109
325	An Overview of <sup>195</sup> Pt Nuclear Magnetic Resonance Spectroscopy. <i>Applied Spectroscopy Reviews</i> , <b>2006</b> , 41, 185-226	4.5	106
324	Surface-Enhanced Raman Scattering of Mercaptopyridines and Pyrazinamide Incorporated in Silver Colloid Adsorbate Films. <i>Langmuir</i> , <b>1997</b> , 13, 3744-3751	4	94
323	Reductive decyclization of organosulfur compounds. Preparation and crystal structure of mu,,mu.'-dithiolato-methanehexacarbonyldiiron(I). <i>Journal of the American Chemical Society</i> , <b>1979</b> , 101, 1313-1315	16.4	93
322	Carbonylmetalloimmunoassay (CMIA) a new type of non-radioisotopic immunoassay. Principles and application to phenobarbital assay. <i>Journal of Immunological Methods</i> , <b>1992</b> , 148, 65-75	2.5	89
321	Characterisation of uranium oxides by micro-Raman spectroscopy. <i>Journal of Nuclear Materials</i> , <b>1987</b> , 144, 17-19	3.3	86
320	Metal carbonyl fragments as a new class of markers in molecular biology. <i>Journal of the American Chemical Society</i> , <b>1985</b> , 107, 4778-4780	16.4	86
319	Preparation, characterization and pH-metric measurements of 4-hydroxysalicylidenechitosan Schiff-base complexes of Fe(III), Co(II), Ni(II), Cu(II), Zn(II), Ru(III), Rh(III), Pd(II) and Au(III). <i>Carbohydrate Research</i> , <b>2011</b> , 346, 775-93	2.9	84
318	Reexamination of the crystal and molecular structure of tricarbonyl(.eta.5-cyclopentadienyl)manganese(I): structural and spectroscopic evidence for a distortion of the cyclopentadienyl ring framework and its implications on bonding in a molecule possessing cylindrical symmetry. <i>Inorganic Chemistry</i> , <b>1981</b> , 20, 2852-2861	5.1	83
317	Fourier transform infrared spectroscopic method for the quantitative trace analysis of transition-metal carbonyl-labeled bioligands. <i>Analytical Chemistry</i> , <b>1991</b> , 63, 2323-9	7.8	82
316	Integrated Optics Evanescent Wave Surface Enhanced Raman Scattering (IO-EWSERS) of Mercaptopyridines on a Planar Optical Chemical Bench: Binding of Hydrogen and Copper Ion. <i>Langmuir</i> , <b>1996</b> , 12, 6389-6398	4	80
315	Anticancer activity of organotin(IV) carboxylates. <i>Inorganica Chimica Acta</i> , <b>2014</b> , 423, 14-25	2.7	76
314	Multi-step and multi-component organometallic synthesis in one pot using orthogonal mechanochemical reactions. <i>Chemical Science</i> , <b>2014</b> , 5, 3576	9.4	76
313	Synthesis, characterization and anticancer studies of mixed ligand dithiocarbamate palladium(II) complexes. <i>European Journal of Medicinal Chemistry</i> , <b>2011</b> , 46, 4071-7	6.8	76
312	Recent developments and perspectives in CdS-based photocatalysts for water splitting. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 20752-20780	13	71

311	Synthesis, structural characterization, and computational studies of novel diiodine adducts with the heterocyclic thioamides N-methylbenzothiazole-2-thione and benzimidazole-2-thione: implications with the mechanism of action of antithyroid drugs. <i>Inorganic Chemistry</i> , <b>2005</b> , 44, 8617-27	5.1	67
310	Synthesis, structural characterization, and biological studies of six- and five-coordinate organotin(IV) complexes with the thioamides 2-mercaptopbenzothiazole, 5-chloro-2-mercaptopbenzothiazole, and 2-mercaptopbenzoxazole. <i>Inorganic Chemistry</i> , <b>2007</b> , 46, 1187-95	5.1	63
309	A mechanochemical strategy for oxidative addition: remarkable yields and stereoselectivity in the halogenation of organometallic Re(I) complexes. <i>Green Chemistry</i> , <b>2014</b> , 16, 1087-1092	10	58
308	Photoactivated platinum-based anticancer drugs. <i>Coordination Chemistry Reviews</i> , <b>2018</b> , 376, 405-429	23.2	58
307	Vibrational Spectroscopic Investigation of Rigid-Rod Platinum Acetylide Polymers Containing Variable Acetylenic Microstructures. <i>Organometallics</i> , <b>1996</b> , 15, 2331-2337	3.8	54
306	Anticancer activity, DNA-binding and DNA-denaturing aptitude of palladium(II) dithiocarbamates. <i>Inorganica Chimica Acta</i> , <b>2016</b> , 451, 31-40	2.7	54
305	New dimeric, trimeric and supramolecular organotin(IV) dithiocarboxylates: Synthesis, structural characterization and biocidal activities. <i>Polyhedron</i> , <b>2009</b> , 28, 3439-3448	2.7	53
304	Vibrational spectra of gaseous, liquid and solid dimethylzinc(II), -cadmium(II) and -mercury(II). <i>Spectrochimica Acta Part A: Molecular Spectroscopy</i> , <b>1977</b> , 33, 669-680	52	
303	New antimony(III) bromide complexes with thioamides: synthesis, characterization, and cytostatic properties. <i>Inorganic Chemistry</i> , <b>2009</b> , 48, 2233-45	5.1	51
302	Synthesis, structural characterization, and biological studies of new antimony(III) complexes with thiones. The influence of the solvent on the geometry of the complexes. <i>Inorganic Chemistry</i> , <b>2007</b> , 46, 8652-61	5.1	49
301	Raman spectra of orthorhombic sulfur at 40 K. <i>Journal of Raman Spectroscopy</i> , <b>1986</b> , 17, 329-334	2.3	49
300	.pi.-cyclopentadienylmanganese thiocarbonyl and carbon disulfide complexes. <i>Inorganic Chemistry</i> , <b>1974</b> , 13, 915-920	5.1	49
299	Supercritical Water Gasification of Lactose as a Model Compound for Valorization of Dairy Industry Effluents. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2015</b> , 54, 9296-9306	3.9	48
298	A genetic network conferring canalization to a bistable patterning system in <i>Drosophila</i> . <i>Current Biology</i> , <b>2013</b> , 23, 2296-2302	6.3	48
297	Infrared and Raman spectroscopic characterization of some organic substituted hybrid silicas. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , <b>2014</b> , 133, 619-25	4.4	46
296	Tetrameric 1:1 and monomeric 1:3 complexes of silver(I) halides with tri(p-tolyl)-phosphine: A structural and biological study. <i>Inorganica Chimica Acta</i> , <b>2009</b> , 362, 1003-1010	2.7	46
295	Azobenzene photoisomerization under high external pressures: testing the strength of a light-activated molecular muscle. <i>Journal of Physical Chemistry B</i> , <b>2012</b> , 116, 9860-5	3.4	43
294	Pressure-tuning spectroscopy of inorganic compounds: a summary of the past 15 years. <i>Coordination Chemistry Reviews</i> , <b>2000</b> , 199, 1-53	23.2	41

293	Zinc(II), ruthenium(II), rhodium(III), palladium(II), silver(I), platinum(II) and complexes of 2-(2?-hydroxy-5?-methylphenyl)-benzotriazole as simple or primary ligand and 2,2?-bipyridyl, 9,10-phenanthroline or triphenylphosphine as secondary ligands: Structure and anticancer activity. <i>Journal of Molecular Structure</i> , <b>2014</b> , 1059, 193-201	3.4	39
292	A palladium(II) 4-hydroxysalicylidene Schiff-base complex anchored on functionalized MCM-41: An efficient heterogeneous catalyst for the epoxidation of olefins. <i>Applied Catalysis A: General</i> , <b>2014</b> , 488, 148-159	5.1	39
291	High-pressure studies of the micro-Raman spectra of iron cyanide complexes: Prussian blue ( $\text{Fe}_4[\text{Fe}(\text{CN})_6]_3$ ), potassium ferricyanide ( $\text{K}_3[\text{Fe}(\text{CN})_6]$ ), and sodium nitroprusside ( $\text{Na}_2[\text{Fe}(\text{CN})_5(\text{NO})]\text{H}_2\text{O}$ ). <i>Journal of Raman Spectroscopy</i> , <b>2011</b> , 42, 1820-1824	2.3	39
290	Zinc(II) complexes derived from the di-Schiff-base ligand N,N?-bis[1-(pyridin-2-yl)ethylidene]ethane-1,2-diamine (LA) and its hydrolytic-cleavage product N-[1-pyridin-2-yl)ethylidene]ethane-1,2-diamine (L): preparation, characterization and crystal structure of the 5-coordinate species $[\text{ZnICl}_2]$ . <i>Polyhedron</i> , <b>1999</b> , 18, 2369-2375	2.7	36
289	Synthesis, structural characterization and anticancer activity of some new complexes of 6-amino-4-hydroxy-2-thiopyrimidine. <i>Journal of Molecular Structure</i> , <b>2012</b> , 1028, 208-214	3.4	35
288	Micro-Raman Spectrum of Triuranium Octoxide, $\text{U}_3\text{O}_8$ . <i>Applied Spectroscopy</i> , <b>1988</b> , 42, 901-902	3.1	35
287	Synthesis, characterization and anticancer activity of 3-formylchromone benzoylhydrazone metal complexes. <i>Transition Metal Chemistry</i> , <b>2015</b> , 40, 179-187	2.1	32
286	Pressure-induced enhancements of luminescence intensities and lifetimes correlated with emitting-state distortions for thiocyanate and selenocyanate complexes of platinum(II) and palladium(II). <i>Inorganic Chemistry</i> , <b>2003</b> , 42, 6503-18	5.1	32
285	(N-succinimidyl 4-pentyoate)hexacarbonyldicobalt: a transition-metal carbonyl complex having similar uses to the Bolton-Hunter reagent. <i>Bioconjugate Chemistry</i> , <b>1991</b> , 2, 13-5	6.3	32
284	Mechanical Structural Investigation of Ion-Exchanged Lithium Silicate Glass using Micro-Raman Spectroscopy. <i>Journal of Physical Chemistry C</i> , <b>2016</b> , 120, 7213-7232	3.8	31
283	Synthesis, characterization, anticancer activity and DNA interaction studies of new 2-aminobenzothiazole complexes; crystal structure and DFT calculations of $[\text{Ag}(\text{Habt})_2]\text{ClO}_4$ . <i>Inorganica Chimica Acta</i> , <b>2014</b> , 423, 242-255	2.7	31
282	Vibrational assignment of $\beta$ -cyanoacetylacetone. <i>Vibrational Spectroscopy</i> , <b>2001</b> , 26, 187-199	2.1	31
281	Synthesis of $\beta$ -alumina ( $\text{Al}_2\text{O}_3$ ) nanoparticles and their potential for use as an adsorbent in the removal of methylene blue dye from industrial wastewater. <i>Nanoscale Advances</i> , <b>2019</b> , 1, 213-218	5.1	30
280	Structure of tricarbonyl(.eta.4-cyclobutadienyl)iron(0) at -45.degree.C. <i>Inorganic Chemistry</i> , <b>1988</b> , 27, 57-59	5.1	29
279	Synthesis, characterization and DNA interaction studies of new complexes containing 2-mercaptopbenzothiazole and different dinitrogen or phosphorous aromatic donors. <i>Inorganica Chimica Acta</i> , <b>2016</b> , 441, 20-33	2.7	28
278	Anticancer metallopharmaceutical agents based on mixed-ligand palladium(II) complexes with dithiocarbamates and tertiary organophosphine ligands. <i>Applied Organometallic Chemistry</i> , <b>2013</b> , 27, 387-395	3.1	28
277	On the use of diamond as a pressure calibrant for near-infrared FT-Raman microspectroscopy at high pressures. <i>Canadian Journal of Chemistry</i> , <b>1995</b> , 73, 1019-1022	0.9	28
276	Synthesis, characterization and anticancer activity of new zinc(II), molybdate(II), palladium(II), silver(I), rhodium(III), ruthenium(II) and platinum(II) complexes of 5,6-diamino-4-hydroxy-2-mercaptopurimidine. <i>Inorganica Chimica Acta</i> , <b>2014</b> , 423, 144-155	2.7	27

275	Synthesis and structures of Se analogues of the antithyroid drug 6-n-propyl-2-thiouracil and its alkyl derivatives: formation of dimeric Se-Se compounds and deselenation reactions of charge-transfer adducts of diiodine. <i>Chemistry - A European Journal</i> , <b>2006</b> , 12, 6888-97	4.8	27
274	Synthesis and characterization of platinum(II) complexes with adamantanamine derivatives and related ligands. <i>Inorganic Chemistry</i> , <b>1993</b> , 32, 2717-2723	5.1	27
273	Vibrational spectra and potential constants of the pentacarbonyl(chalcocarbonyl)metal(0) complexes M(CO) <sub>5</sub> (CX) (M = chromium, tungsten; X = sulfur, selenium). <i>Inorganic Chemistry</i> , <b>1981</b> , 20, 2553-2565	5.1	27
272	Vibrational spectra of the pentacarbonyl(thiocarbonyl)metal(0) complexes, M(CO) <sub>5</sub> (CS) M = chromium, tungsten) and trans-pentacarbonyl(thiocarbonyl)tungsten(0) (90% carbon-13 enriched). <i>Inorganic Chemistry</i> , <b>1976</b> , 15, 2602-2609	5.1	27
271	Preparation, structural and physical studies of mercury(II) halide complexes with the N,N?-chelating biheteroaromatic ligand 2-(2?-pyridyl)quinoxaline. <i>Inorganica Chimica Acta</i> , <b>1994</b> , 227, 129-136	2.7	26
270	Synthesis, spectroscopic characterization, and crystal structures of two chlorodiorganotin(IV) 4-(2-methoxyphenyl)piperazine-1-carbodithioates. <i>Inorganica Chimica Acta</i> , <b>2008</b> , 361, 3322-3326	2.7	25
269	Transition-metal carbonyl clusters as novel infrared markers for estradiol receptor site detection. <i>Organometallics</i> , <b>1987</b> , 6, 1985-1987	3.8	25
268	Synthesis, spectroscopic properties, X-ray single crystal analysis and antimicrobial activities of organotin(IV) 4-(4-methoxyphenyl)piperazine-1-carbodithioates. <i>Inorganica Chimica Acta</i> , <b>2011</b> , 376, 381 <sup>27</sup> -388 <sup>24</sup>	2.7	24
267	Application of Organotransition Metal Carbonyl Complexes as Infrared Markers for Hormonal Steroids in Biological Processes. <i>Comments on Inorganic Chemistry</i> , <b>1989</b> , 8, 269-286	3.9	24
266	New complexes of 2-hydroxy-1-naphthoic acid and X-ray crystal structure of [Pt(hna)(PPh <sub>3</sub> ) <sub>2</sub> ]. <i>Journal of Molecular Structure</i> , <b>2013</b> , 1036, 196-202	3.4	23
265	Destruction of Decachlorobiphenyl Using Supercritical Water Oxidation. <i>Energy &amp; Fuels</i> , <b>2004</b> , 18, 1257-1265	4.1	23
264	Vibrational Spectra of Polymers. 2. Variable-Temperature Raman Spectroscopy as a Probe for Ion Clustering in Ionomers. <i>Macromolecules</i> , <b>1979</b> , 12, 948-952	5.5	23
263	Vibrational spectra and potential constants of the (.eta.6-benzene)chromium(0) chalcocarbonyl complexes, (.eta.6-C <sub>6</sub> H <sub>6</sub> )Cr(CO) <sub>2</sub> (CX) (X = oxygen, sulfur, selenium). <i>Inorganic Chemistry</i> , <b>1982</b> , 21, 338-347 <sup>21</sup>	5.1	23
262	An Overview of the Potential Therapeutic Applications of CO-Releasing Molecules. <i>Bioinorganic Chemistry and Applications</i> , <b>2018</b> , 2018, 8547364	4.2	22
261	New zinc(II), palladium(II) and platinum(II) complexes of dl-piperidine-2-carboxylic acid; X-ray crystal structure of trans-[Zn <sub>2</sub> (ECA) <sub>2</sub> (Hpa) <sub>2</sub> Cl <sub>6</sub> ] and anticancer activity of some complexes. <i>Journal of Molecular Structure</i> , <b>2013</b> , 1036, 161-167	3.4	22
260	Continuous Synthesis of Tin and Indium Oxide Nanoparticles in Sub- and Supercritical Water. <i>Journal of the American Ceramic Society</i> , <b>2007</b> , 90, 2367-2371	3.8	22
259	Synthesis of the pentacarbonyl(chalcocarbonyl)chromium(0) complexes, Cr(CO) <sub>5</sub> (CX) (X = S, Se). <i>Journal of Organometallic Chemistry</i> , <b>1981</b> , 205, 177-183	2.3	22
258	Reactions of metal carbonyl complexes. 10. Selenocarbonyl complexes of chromium(0), manganese(I), and rhenium(I). <i>Inorganic Chemistry</i> , <b>1977</b> , 16, 1779-1782	5.1	22

257	Bioactivity of new ferrocene incorporated N,N'-disubstituted ureas: Synthesis, structural elucidation and DFT study. <i>Inorganica Chimica Acta</i> , <b>2016</b> , 439, 82-91	2.7	21
256	Effect of Pressure on the Vibronic Luminescence Spectrum of atrans-Dioxo Rhenium(V) Complex. <i>Journal of Physical Chemistry A</i> , <b>2001</b> , 105, 6269-6272	2.8	21
255	Infrared spectroscopic study of thin films of poly(methylsilane), its oxidation, and its transformation into poly(carbosilane) on the surfaces of silicon single-crystal wafers. <i>Chemistry of Materials</i> , <b>1994</b> , 6, 977-982	9.6	21
254	Vibrational study of the effects of high external pressures on the structure and phase behavior of pentacarbonyl(methyl)manganese(I) and pentacarbonyl(methyl)rhenium(I). <i>Inorganic Chemistry</i> , <b>1991</b> , 30, 117-120	5.1	21
253	Improving the corrosion performance of hybrid sol-gel matrix by modification with phosphonic acid. <i>Progress in Organic Coatings</i> , <b>2015</b> , 80, 49-58	4.8	20
252	Removal of copper(II) ions from Aqueous Media by Chemically Modified MCM-41 with N-(3-(trimethoxysilyl)propyl)ethylenediamine and Its 4-hydroxysalicylidene Schiff-base. <i>Environmental Progress and Sustainable Energy</i> , <b>2018</b> , 37, 746-760	2.5	20
251	Electroencephalogram discharges in atypical cognitive development. <i>Journal of Child Neurology</i> , <b>2010</b> , 25, 556-66	2.5	20
250	New mononuclear organotin(IV) 4-benzhydrylpiperazine-1-carbodithioates: Synthesis, spectroscopic characterization, X-ray structures and in vitro antimicrobial activities. <i>Inorganica Chimica Acta</i> , <b>2011</b> , 373, 187-194	2.7	20
249	Transition metal complexes of 2-formylpyridinethiosemicarbazone (HFpyTSC) and X-ray crystal structures of [Pd(FpyTSC)(PPh <sub>3</sub> )]PF <sub>6</sub> and [Pd(FpyTSC)(SCN)]. <i>Inorganica Chimica Acta</i> , <b>2010</b> , 363, 2526-2532	2.7	20
248	Preparation and characterization of the seven coordinate cadmium(II) complex [Cd(3,4-H <sub>2</sub> dhb) <sub>2</sub> (H <sub>2</sub> O) <sub>3</sub> ] · HCl · (3,4-H <sub>3</sub> dhb) · 2.5H <sub>2</sub> O; the first structural determination of a complex containing the 3,4-dihydroxybenzoato(1)(3,4-H <sub>2</sub> dhb) ligand. <i>Polyhedron</i> , <b>1997</b> , 16, 1399-1402	2.7	20
247	Synthesis, X-ray characterization and study of new ionic complexes of 2-pyridone, obtained by oxidation with I <sub>2</sub> . <i>New Journal of Chemistry</i> , <b>2005</b> , 29, 714	3.6	20
246	Ternary complexes of cisplatin with amino acids and nucleobases. The crystal structure of cis-[(NH <sub>3</sub> ) <sub>2</sub> Pt(1-MeC-N <sub>3</sub> )(Gly-N)](NO <sub>3</sub> ) · 2H <sub>2</sub> O. <i>Inorganica Chimica Acta</i> , <b>1991</b> , 184, 209-220	2.7	20
245	Carbon-13 NMR spectra of some group VIB and VIIIB transition metal chalcocarbonyl complexes. <i>Journal of Organometallic Chemistry</i> , <b>1979</b> , 169, 381-393	2.3	20
244	Vibrational spectra of solid tri-E carbonyl-(hexacarbonyl)di-iron(O), Fe <sub>2</sub> (CO) <sub>9</sub> . <i>Journal of Molecular Structure</i> , <b>1978</b> , 43, 9-15	3.4	20
243	Raman Spectroscopic Study of the Molybdate Mineral Szenicsite and Comparison with Other Paragenetically Related Molybdate Minerals. <i>Spectroscopy Letters</i> , <b>2007</b> , 40, 603-614	1.1	19
242	Complexes of Zn(2+), Cd(2+), and Hg(2+) with 2-(alpha-Hydroxybenzyl)thiamine Monophosphate Chloride. <i>Inorganic Chemistry</i> , <b>1996</b> , 35, 6513-6519	5.1	19
241	Absolute integrated infrared intensities of the carbonyl and thiocabonyl stretching modes in dicarbonylthiocarbonyl(.eta.5-cyclopentadienyl)manganese. <i>Inorganic Chemistry</i> , <b>1975</b> , 14, 701-703	5.1	19
240	Large pressure-induced increase in luminescence intensity for the [Pd(SCN)(4)](2-) complex. <i>Journal of the American Chemical Society</i> , <b>2002</b> , 124, 9384-5	16.4	18

239	An Ultra-Low-Volume Gold Light-Pipe Cell for the IR Analysis of Dilute Organic Solutions. <i>Applied Spectroscopy</i> , <b>1990</b> , 44, 1092-1094	3.1	18
238	New dimeric and supramolecular mixed ligand Palladium(II) dithiocarbamates as potent DNA binders. <i>Polyhedron</i> , <b>2012</b> , 39, 1-8	2.7	17
237	Pressure-tuning Raman microspectroscopic study of cobalt(II), manganese(II), zinc(II) and magnesium(II) pyrophosphate dihydrates. <i>Journal of Molecular Structure</i> , <b>2005</b> , 751, 168-171	3.4	17
236	Effect of high external pressures on the vibrational spectra of biomedical materials: calcium hydroxyapatite and calcium fluoroapatite. <i>Journal of Biomedical Materials Research Part B</i> , <b>1996</b> , 30, 239-44	17	
235	Surface enhanced Raman scattering and surface plasmon absorption of glass-deposited silver-2,2'-bipyridine films formed from interfacial silver metal liquid-like films. <i>Langmuir</i> , <b>1993</b> , 9, 3234-3238	4	17
234	Pressure-Induced Transmembrane $\alpha$ - to $\beta$ -Helical Conversion in Bacteriorhodopsin: An Infrared Spectroscopic Study. <i>Journal of Physical Chemistry B</i> , <b>1997</b> , 101, 9421-9424	3.4	16
233	On the mechanism of action of thiamin enzymes, Crystal structure of 2-( $\beta$ -hydroxyethyl)thiamin pyrophosphate (HETPP). Complexes of HETPP with zinc(II) and cadmium(II). <i>Journal of Biological Inorganic Chemistry</i> , <b>1998</b> , 3, 437-448	3.7	16
232	Crystal structure, vibrational spectra and thermal decomposition of a new tetrazinc(II) dipyrophosphate decahydrate, Zn <sub>4</sub> (P <sub>2</sub> O <sub>7</sub> ) <sub>2</sub> ·10H <sub>2</sub> O. <i>Journal of Chemical Crystallography</i> , <b>2005</b> , 35, 49-59	5	16
231	Effect of pressure on coupled electronic ground and excited states determined from luminescence spectra of trans-dioxorhenium(V) complexes. <i>Journal of the American Chemical Society</i> , <b>2002</b> , 124, 11699-11708	16	16
230	Surface-Enhanced Raman Scattering Spectroscopic Study of 17. $\alpha$ -Ethinylestradiol on Silver Colloid and in Glass-Deposited Ag-17. $\alpha$ -Ethinylestradiol Film. <i>Analytical Chemistry</i> , <b>1994</b> , 66, 1762-1765	7	16
229	An Overview of the High-Pressure Vibrational Spectra of Clays and Related Minerals. <i>Applied Spectroscopy Reviews</i> , <b>2006</b> , 41, 449-471	4.5	15
228	Absolute integrated infrared intensities of the carbonyl, thiocarbonyl, and selenocarbonyl stretching modes in the chalcocarbonyl complexes Cr(CO) <sub>5</sub> (CX) and (.eta.-C <sub>6</sub> H <sub>6</sub> )Cr(CO) <sub>2</sub> (CX) (X = O, S, Se). <i>Organometallics</i> , <b>1984</b> , 3, 1786-1789	3.8	15
227	Kinetics and mechanism of arene displacement in (.eta.-arene)dicarbonyl(chalcocarbonyl)chromium(0) complexes, (.eta.-arene)Cr(CO) <sub>2</sub> (CX) (X = S, Se), by tertiary phosphites. <i>Inorganic Chemistry</i> , <b>1986</b> , 25, 3910-3914	5.1	15
226	Determination of the network structure of sensor materials prepared by three different sol-gel routes using Fourier transform infrared spectroscopy (FT-IR). <i>Applied Spectroscopy</i> , <b>2013</b> , 67, 441-7	3.1	14
225	Structural and spectroscopic characterization of a cationic aquanitrato copper(II) complex with the tetridentate Schiff-base ligand N,N'-bis[1( $\beta$ -pyridyl)ethylidene]ethane-1,2-diamine. <i>Transition Metal Chemistry</i> , <b>1998</b> , 23, 599-604	2.1	14
224	Dicarbonyl([5-Cyclopentadienylthio-Carbonyl]Iron(1 +) Hexafluorophosphate(1 -) and Dicarbonyl([5-Cyclopentadienyl]-[(Methylthio)Thiocarbonyl]Iron. <i>Inorganic Syntheses</i> , <b>2007</b> , 100-103	14	
223	Microperoxidase-11: molecular dynamics and Q-band excited resonance Raman of the oxidized, reduced and carbonyl forms. <i>Journal of Biomolecular Structure and Dynamics</i> , <b>1998</b> , 15, 1039-50	3.6	14
222	Solid-state nuclear magnetic resonance studies of triphenylsilyl-, triphenyltin-, and triphenyllead(pentacarbonyl)manganese(I) complexes. <i>Canadian Journal of Chemistry</i> , <b>1999</b> , 77, 1892-1898	9	14

221	Pressure-tuning infrared and solution Raman spectroscopic studies of 17 $\beta$ -estradiol and several A-ring and 17 $\beta$ -ethynylestradiol derivatives. <i>Vibrational Spectroscopy</i> , <b>1995</b> , 8, 263-277	2.1	14
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