Sara J Palmer

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163 papers	3,433 citations	31 h-index	47 g-index
163 ext. papers	3,786 ext. citations	4.8 avg, IF	5.76 L-index

#	Paper	IF	Citations
163	Hydrotalcites and their role in coordination of anions in Bayer liquors: Anion binding in layered double hydroxides. *Coordination Chemistry Reviews*, **2009**, 253, 250-267	23.2	156
162	A review of the removal of anions and oxyanions of the halogen elements from aqueous solution by layered double hydroxides. *Journal of Colloid and Interface Science*, **2014**, 417, 356-68	9.3	150
161	A Raman spectroscopic study of humite minerals. *Journal of Raman Spectroscopy*, **2007**, 38, 68-77	2.3	90
160	Hollow fibre membrane contactors for ammonia recovery: Current status and future developments. *Journal of Environmental Chemical Engineering*, **2017**, 5, 1349-1359	6.8	87
159	Infrared and infrared emission spectroscopy of nesquehonite Mg(OH)(HCO3)·2H2O-implications for the formula of nesquehonite. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **2011**, 78, 1255-60	4.4	87
158	Synthesis and Raman spectroscopic characterisation of hydrotalcite with CO32− and (MoO4)2− anions in the interlayer. *Journal of Raman Spectroscopy*, **2008**, 39, 395-401	2.3	85
157	Comprehensive examination of acid leaching behaviour of mineral phases from red mud: Recovery of Fe, Al, Ti, and Si. *Minerals Engineering*, **2016**, 99, 8-18	4.9	67
156	Strategies for the management and treatment of coal seam gas associated water. *Renewable and Sustainable Energy Reviews*, **2016**, 57, 669-691	16.2	65
155	Thermal decomposition of hydrotalcites with variable cationic ratios. *Journal of Thermal Analysis and Calorimetry*, **2009**, 95, 123-129	4.1	65
154	Effect of strong acids on red mud structural and fluoride adsorption properties. *Journal of Colloid and Interface Science*, **2014**, 423, 158-65	9.3	60
153	Mechanism for hydrotalcite decomposition: a controlled rate thermal analysis study. *Journal of Colloid and Interface Science*, **2008**, 318, 302-8	9.3	58
152	Determination of the mechanism(s) for the inclusion of arsenate, vanadate, or molybdate anions into hydrotalcites with variable cationic ratio. *Journal of Colloid and Interface Science*, **2009**, 329, 404-9	9.3	55
151	Red Mud from Brazil: Thermal Behavior and Physical Properties. *Industrial & Engineering Chemistry Research*, **2012**, 51, 775-779	3.9	51
150	Activated alumina for the removal of fluoride ions from high alkalinity groundwater: New insights from equilibrium and column studies with multicomponent solutions. *Separation and Purification Technology*, **2017**, 187, 14-24	8.3	47
149	Evaluation of electrocoagulation for the pre-treatment of coal seam water. *Journal of Water Process Engineering*, **2014**, 4, 166-178	6.7	46
148	A Raman spectroscopic study of the different vanadate groups in solid-state compounds: model case: mineral phases vésignieite [BaCu3(VO4)2(OH)2] and volborthite [Cu3V2O7(OH)2·2H2O]. *Journal of Raman Spectroscopy*, **2011**, 42, 1701-1710	2.3	45
147	Characterisation of bauxite and seawater neutralised bauxite residue using XRD and vibrational spectroscopic techniques. *Journal of Materials Science*, **2009**, 44, 55-63	4.3	45

146	Alternative neutralisation materials for acid mine drainage treatment. *Journal of Water Process Engineering*, **2018**, 22, 46-58	6.7	44
145	Equilibrium studies of ammonium exchange with Australian natural zeolites. *Journal of Water Process Engineering*, **2016**, 9, 47-57	6.7	44
144	Re-use of waste red mud: Production of a functional iron oxide adsorbent for removal of phosphorous. *Journal of Water Process Engineering*, **2018**, 25, 138-148	6.7	42
143	Ion exchange treatment of saline solutions using Lanxess S108H strong acid cation resin. *Chemical Engineering Journal*, **2015**, 280, 525-535	14.7	41
142	Infrared and near-infrared spectroscopic study of synthetic hydrotalcites with variable divalent/trivalent cationic ratios. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **2009**, 72, 984-8	4.4	41
141	Use of Hydrotalcites for the Removal of Toxic Anions from Aqueous Solutions. *Industrial & Engineering Chemistry Research*, **2010**, 49, 8969-8976	3.9	39
140	An examination of isotherm generation: Impact of bottle-point method upon potassium ion exchange with strong acid cation resin. *Separation and Purification Technology*, **2015**, 141, 366-377	8.3	38
139	Synthesis and Raman spectroscopic characterisation of hydrotalcite with CO32− and VO3− anions in the interlayer. *Journal of Raman Spectroscopy*, **2007**, 38, 1602-1608	2.3	37
138	Thermally activated seawater neutralised red mud used for the removal of arsenate, vanadate and molybdate from aqueous solutions. *Journal of Colloid and Interface Science*, **2010**, 342, 147-54	9.3	36
137	Thermal stability of the cave mineral brushite CaHPO4·2H2O – Mechanism of formation and decomposition. *Thermochimica Acta*, **2011**, 521, 14-17	2.9	34
136	Thermal decomposition of hydrotalcite with molybdate and vanadate anions in the interlayer. *Journal of Thermal Analysis and Calorimetry*, **2008**, 92, 879-886	4.1	34
135	Sulfate intercalated layered double hydroxides prepared by the reformation effect. *Journal of Thermal Analysis and Calorimetry*, **2012**, 107, 1123-1128	4.1	32
134	Raman spectroscopy of newberyite Mg(PO3OH)·3H2O: a cave mineral. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **2011**, 79, 1149-53	4.4	32
133	Exploration of the fundamental equilibrium behaviour of calcium exchange with weak acid cation resins. *Desalination*, **2014**, 351, 27-36	10.3	31
132	Behaviour of natural zeolites used for the treatment of simulated and actual coal seam gas water. *Journal of Environmental Chemical Engineering*, **2016**, 4, 1918-1928	6.8	31
131	The molecular structure of the mineral beudantite PbFe3(AsO4,SO4)2(OH)6 – Implications for arsenic accumulation and removal. *Journal of Molecular Structure*, **2011**, 988, 52-58	3.4	28
130	Effect of pH on the uptake of arsenate and vanadate by hydrotalcites in alkaline solutions: a Raman spectroscopic study. *Journal of Raman Spectroscopy*, **2011**, 42, 224-229	2.3	28
129	Raman microscopy of the mixite mineral BiCu6(AsO4)3(OH)6·3H2O from the Czech Republic. *Journal of Raman Spectroscopy*, **2009**, 41, 566-570	2.3	28

128	Characterisation of red mud by UV-vis-NIR spectroscopy. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **2009**, 71, 1814-8	4.4	28
127	Raman and infrared study of phyllosilicates containing heavy metals (Sb, Bi): bismutoferrite and chapmanite. *Journal of Raman Spectroscopy*, **2010**, 41, 814-819	2.3	28
126	Near-infrared and mid-IR spectroscopy of selected humite minerals. *Vibrational Spectroscopy*, **2007**, 44, 154-161	2.1	28
125	Ion exchange of sodium chloride and sodium bicarbonate solutions using strong acid cation resins in relation to coal seam water treatment. *Journal of Water Process Engineering*, **2016**, 11, 60-67	6.7	28
124	Adsorption of reactive dye on seawater-neutralised bauxite refinery residue. *Journal of Colloid and Interface Science*, **2013**, 396, 210-4	9.3	27
123	Dussertite BaFe3+3(AsO4)2(OH)5 Raman spectroscopic study of a hydroxy-arsenate mineral. *Journal of Raman Spectroscopy*, **2011**, 42, 56-61	2.3	27
122	Synthesis and Raman spectroscopic characterisation of hydrotalcites based on the formula Ca6Al2(CO3)(OH)16 4H2O. *Journal of Raman Spectroscopy*, **2011**, 42, 1163-1167	2.3	26
121	Thermo-Raman spectroscopy of selected layered double hydroxides of formula Cu6Al2(OH)16CO3 and Zn6Al2(OH)16CO3. *Journal of Raman Spectroscopy*, **2009**, 40, 645-649	2.3	26
120	A Raman spectroscopic study of the phosphate mineral pyromorphite Pb5(PO4)3Cl. *Polyhedron*, **2007**, 26, 4533-4541	2.7	26
119	Raman spectroscopic study of synthetic reevesite and cobalt substituted reevesite (Ni,Co)6Fe2(OH)16(CO3) 4H2O. *Journal of Raman Spectroscopy*, **2010**, 41, 78-83	2.3	25
118	Zinc aluminium layered double hydroxides for the removal of iodine and iodide from aqueous solutions. *Desalination and Water Treatment*, **2012**, 39, 166-175		24
117	Factors influencing kinetic and equilibrium behaviour of sodium ion exchange with strong acid cation resin. *Separation and Purification Technology*, **2016**, 163, 79-91	8.3	24
116	Thermal decomposition of the layered double hydroxides of formula Cu6Al2(OH)16CO3 and Zn6Al2(OH)16CO3. *Journal of Thermal Analysis and Calorimetry*, **2009**, 96, 481-485	4.1	23
115	A vibrational spectroscopic study of hydrated Fe(3+) hydroxyl-sulfates; polymorphic minerals butlerite and parabutlerite. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **2011**, 79, 1356-63	4.4	23
114	Equilibrium and column studies of iron exchange with strong acid cation resin. *Journal of Environmental Chemical Engineering*, **2015**, 3, 373-385	6.8	22
113	Raman spectroscopic study of pascoite Ca3V10O(28) 17H2O. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **2011**, 78, 248-52	4.4	22
112	Raman spectroscopy of the basic copper arsenate mineral: euchroite. *Journal of Raman Spectroscopy*, **2010**, 41, 571-575	2.3	22
111	Influence of operating parameters during electrocoagulation of sodium chloride and sodium bicarbonate solutions using aluminium electrodes. *Journal of Water Process Engineering*, **2018**, 22, 13-26	6.7	21

110	Synthesis and Raman spectroscopic study of Mg/Al,Fe hydrotalcites with variable cationic ratios. *Journal of Raman Spectroscopy*, **2009**, 40, 1138-1143	2.3	21
109	A Raman and infrared spectroscopic study of the mineral delvauxite CaFe4(3+)(PO4,SO4)2(OH)8·4-6H2O--a 'colloidal' mineral. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **2011**, 78, 1250-4	4.4	21
108	Effectiveness of aluminium based coagulants for pre-treatment of coal seam water. *Separation and Purification Technology*, **2017**, 177, 207-222	8.3	20
107	A vibrational spectroscopic study of the mineral corkite . *Journal of Molecular Structure*, **2011**, 988, 47-51	3.4	19
106	Structure of selected basic zinc/copper (II) phosphate minerals based upon near-infrared spectroscopy--implications for hydrogen bonding. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **2011**, 78, 996-1003	4.4	19
105	A vibrational spectroscopic study of the mixed anion mineral sanjuanite Al2(PO4)(SO4)(OH)·9H2O. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **2011**, 79, 1210-4	4.4	19
104	Thermal decomposition of synthesised layered double hydroxides based upon Mg/(Fe,Cr) and carbonate. *Thermochimica Acta*, **2008**, 479, 1-6	2.9	19
103	Removal of fluoride ions from solution by chelating resin with imino-diacetate functionality. *Journal of Water Process Engineering*, **2017**, 20, 113-122	6.7	18
102	Understanding coal seam gas associated water, regulations and strategies for treatment. *Journal of Unconventional Oil and Gas Resources*, **2016**, 13, 32-43		18
101	Raman spectroscopy of synthetic CaHPO4·2H2O and in comparison with the cave mineral brushite. *Journal of Raman Spectroscopy*, **2012**, 43, 571-576	2.3	18
100	Raman spectroscopy of stercorite H(NH4)Na(PO4)·4H2O--a cave mineral from Petrogale Cave, Madura, Eucla, Western Australia. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **2011**, 79, 1215-9	4.4	18
99	Value adding red mud waste: Impact of red mud composition upon fluoride removal performance of synthesised akaganeite sorbents. *Journal of Environmental Chemical Engineering*, **2018**, 6, 2063-2074	6.8	17
98	Characterization of Bayer Hydrotalcites Formed from Bauxite Refinery Residue Liquor. *Industrial & Engineering Chemistry Research*, **2011**, 50, 5346-5351	3.9	17
97	Synthesis and thermal stability of hydrotalcites based upon gallium. *Journal of Thermal Analysis and Calorimetry*, **2010**, 101, 195-198	4.1	17
96	Coal seam water quality and the impact upon management strategies. *Journal of Petroleum Science and Engineering*, **2017**, 150, 323-333	4.4	16
95	Enhanced water recovery in the coal seam gas industry using a dual reverse osmosis system. *Environmental Science: Water Research and Technology*, **2017**, 3, 278-292	4.2	16
94	Enhanced removal of high Mn(II) and minor heavy metals from acid mine drainage using tunnelled manganese oxides. *Journal of Environmental Chemical Engineering*, **2018**, 6, 3249-3261	6.8	16
93	Comparitve analysis of the physical, chemical and structural characteristics and performance of manganese greensands. *Journal of Water Process Engineering*, **2016**, 13, 16-26	6.7	16

92	Raman spectroscopic study of the hydroxy-phosphate mineral plumbogummite PbAl(PO)(OH,HO). *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **2013**, 103, 431-4	4.4	16
91	Neutralization of Acid Sulfate Solutions Using Bauxite Refinery Residues and Its Derivatives. *Industrial & Engineering Chemistry Research*, **2013**, 52, 1388-1395	3.9	16
90	A Raman spectroscopic study of the mono-hydrogen phosphate mineral dorfmanite Na2(PO3OH)2H2O and in comparison with brushite. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **2011**, 82, 132-6	4.4	16
89	Molecular structure of the mineral woodhouseite CaAl3(PO4,SO4)2(OH)6. *Journal of Molecular Structure*, **2011**, 1001, 56-61	3.4	16
88	A near-infrared and Raman spectroscopic study of the mineral richelsdorfite Ca2Cu5Sb[Cl|(OH)6|(AsO4)4]6H2O. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **2011**, 78, 1302-4	4.4	16
87	Vibrational spectroscopic study of the mineral tsumebite Pb2Cu(PO4,SO4)(OH). *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **2011**, 79, 1794-7	4.4	16
86	Thermal decomposition of Bayer precipitates formed at varying temperatures. *Journal of Thermal Analysis and Calorimetry*, **2010**, 100, 27-32	4.1	16
85	Determination of an engineering model for exchange kinetics of strong acid cation resin for the ion exchange of sodium chloride & sodium bicarbonate solutions. *Journal of Water Process Engineering*, **2017**, 17, 197-206	6.7	15
84	The effect of synthesis temperature on the formation of hydrotalcites in Bayer liquor: a vibrational spectroscopic analysis. *Applied Spectroscopy*, **2009**, 63, 748-52	3.1	15
83	Raman spectroscopic study of the hydrogen-arsenate mineral pharmacolite Ca(AsO3OH)2H2O implications for aquifer and sediment remediation. *Journal of Raman Spectroscopy*, **2010**, 41, 1348-1352	2.3	15
82	Vibrational spectroscopic study of the mineral pitticite Fe, AsO4, SO4, H2O. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **2012**, 85, 173-8	4.4	14
81	Raman spectroscopy of hydrogen-arsenate group (AsO3OH) in solid-state compounds: cobalt mineral phase burgessite Co2(H2O)4[AsO3OH]2H2O. *Journal of Raman Spectroscopy*, **2011**, 42, 214-218	2.3	14
80	Synthesis and thermal stability of hydrotalcites containing manganese. *Journal of Thermal Analysis and Calorimetry*, **2010**, 100, 981-985	4.1	14
79	Synthesis and thermal analysis of indium-based hydrotalcites of formula Mg6In2(CO3)(OH)164H2O. *Journal of Thermal Analysis and Calorimetry*, **2010**, 101, 859-863	4.1	14
78	A near-infrared spectroscopic study of the phosphate mineral pyromorphite Pb5(PO4)3Cl. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **2008**, 71, 430-5	4.4	14
77	Vibrational spectroscopic analysis of the mineral crandallite CaAl3(PO4)2(OH)5(H2O) from the Jenolan Caves, Australia. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **2011**, 82, 461-6	4.4	13
76	Thermal analysis of hydrotalcite synthesised from aluminate solutions. *Journal of Thermal Analysis and Calorimetry*, **2011**, 103, 473-478	4.1	13
75	Raman spectroscopic study of the uranyl carbonate mineral ejkaite and its comparison with synthetic trigonal Na4[UO2(CO3)3]. *Journal of Raman Spectroscopy*, **2010**, 41, 459-464	2.3	13

74	BDST modelling of sodium ion exchange column behaviour with strong acid cation resin in relation to coal seam water treatment. *Journal of Environmental Chemical Engineering*, **2016**, 4, 2216-2224	6.8	13
73	Thermal Stability of newberyite Mg(PO3OH)·3H2O. *Journal of Thermal Analysis and Calorimetry*, **2012**, 107, 1143-1146	4.1	12
72	The structure of the mineral leogangite Cu10(OH)6(SO4)(AsO4)4·8H2O--implications for arsenic accumulation and removal. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **2011**, 82, 221-7	4.4	12
71	A Raman and infrared spectroscopic study of Ca2+ dominant members of the mixite group from the Czech Republic. *Journal of Raman Spectroscopy*, **2011**, 42, 1154-1159	2.3	12
70	A vibrational spectroscopic study of the mineral hinsdalite (Pb,Sr)Al3(PO4)(SO4)(OH)6. *Journal of Molecular Structure*, **2011**, 1001, 43-48	3.4	12
69	The synthesis and spectroscopic characterisation of hydrotalcite formed from aluminate solutions. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **2011**, 79, 156-60	4.4	12
68	Thermal analysis of synthetic reevesite and cobalt substituted reevesite (Ni,Co)6Fe2(OH)16(CO3) · 4H2O. *Journal of Thermal Analysis and Calorimetry*, **2010**, 100, 125-131	4.1	12
67	Value adding red mud waste: High performance iron oxide adsorbent for removal of fluoride. *Journal of Environmental Chemical Engineering*, **2017**, 5, 2200-2206	6.8	11
66	Dynamic and controlled rate thermal analysis of halotrichite. *Journal of Thermal Analysis and Calorimetry*, **2010**, 99, 501-507	4.1	11
65	Thermoanalytical studies of natural potassium, sodium and ammonium alunites. *Journal of Thermal Analysis and Calorimetry*, **2010**, 100, 961-966	4.1	11
64	A Raman spectroscopic study of the basic carbonate mineral callaghanite Cu2Mg2(CO3)(OH)6·2H2O. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **2013**, 108, 171-6	4.4	10
63	Ferrous poisoning of surface MnO2 during manganese greensand operation. *Journal of Environmental Chemical Engineering*, **2017**, 5, 3033-3043	6.8	10
62	The molecular structure of the mineral sarmientite Fe2(AsO4,SO4)2(OH)6·5H2O · Implications for arsenic accumulation and removal. *Journal of Molecular Structure*, **2011**, 1004, 88-93	3.4	10
61	The molecular structure of the multianion mineral hidalgoite PbAl3(AsO4)(SO4)(OH)6 · Implications for arsenic removal from soils. *Journal of Molecular Structure*, **2011**, 1005, 214-219	3.4	10
60	Vibrational spectroscopic analysis of taranakite (K,NH4)Al3(PO4)3(OH)·9(H2O) from the Jenolan Caves, Australia. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **2011**, 83, 106-11	4.4	10
59	Are the "cave" minerals archerite (K,NH4)H2PO4 and biphosphammite (K,NH4)H2PO4 identical? A molecular structural study. *Journal of Molecular Structure*, **2011**, 1001, 49-55	3.4	10
58	A Raman spectroscopic study of M2+M3+ sulfate minerals, rhomerite Fe2+Fe23+ (SO4)4·14H2O and botryogen Mg2+Fe3+ (SO4)2(OH)·7H2O. *Journal of Raman Spectroscopy*, **2011**, 42, 825-830	2.3	10
57	Raman spectrum of decrespignyite [(Y,REE)4Cu(CO3)4Cl(OH)5·2H2O] and its relation with those of other halogenated carbonates including bastnasite, hydroxybastnasite, parisite and northupite. *Journal of Raman Spectroscopy*, **2011**, 42, 2042-2048	2.3	10

56	The effect of high concentrations of calcium hydroxide in neutralised synthetic supernatant liquor□Implications for alumina refinery residues. *Journal of Industrial and Engineering Chemistry*, **2011**, 17, 56-61	6.3	10
55	Minimising reversion, using seawater and magnesium chloride, caused by the dissolution of tricalcium aluminate hexahydrate. *Journal of Colloid and Interface Science*, **2011**, 353, 398-405	9.3	10
54	Synthesis and Raman spectroscopy of indium-based hydrotalcites of formula Mg6In2(CO3)(OH)16□ 4H2O. *Journal of Raman Spectroscopy*, **2010**, 41, 1797-1802	2.3	10
53	The structure of mimetite, arsenian pyromorphite and hedyphane □A near-infrared spectroscopic study. *Polyhedron*, **2008**, 27, 1747-1753	2.7	10
52	Methodology of isotherm generation: Multicomponent K+ and H+ ion exchange with strong acid cation resin. *Separation and Purification Technology*, **2020**, 251, 117360	8.3	10
51	The influence of coal seam water composition upon electrocoagulation performance prior to desalination. *Journal of Environmental Chemical Engineering*, **2018**, 6, 1943-1956	6.8	9
50	The structure of the mineral arthurite (AsO4,PO4,SO4)2(O,OH)2□4H2O □A Raman spectroscopic study. *Journal of Molecular Structure*, **2011**, 994, 283-288	3.4	9
49	Raman spectroscopy of gallium- and zinc-based hydrotalcites. *Journal of Raman Spectroscopy*, **2011**, 42, 1168-1173	2.3	9
48	Techno-economic assessment of solar thermal and alternative energy integration in supercritical water gasification of microalgae. *Energy Conversion and Management*, **2021**, 230, 113807	10.6	9
47	Performance of bauxite refinery residues for treating acid mine drainage. *Journal of Water Process Engineering*, **2018**, 26, 28-37	6.7	9
46	Applicability of iron based coagulants for pre-treatment of coal seam water. *Journal of Environmental Chemical Engineering*, **2017**, 5, 1119-1132	6.8	8
45	Minimization of Bauxite Residue Neutralization Products Using Nanofiltered Seawater. *Industrial & Engineering Chemistry Research*, **2014**, 53, 3787-3794	3.9	8
44	Vibrational Spectroscopy of Natural Cave Mineral Monetite CaHPO4 and the Synthetic Analog. *Spectroscopy Letters*, **2013**, 46, 54-59	1.1	8
43	Vibrational spectroscopy of the multi-anion mineral zykaite Fe4(AsO4)(SO4)(OH)□15H2O-implications for arsenate removal. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **2011**, 83, 444-8	4.4	8
42	Raman spectroscopic study of the uranyl titanate mineral euxenite (Y,Ca,U,Ce,Th) (Nb,Ta,Ti)2O6. *Journal of Raman Spectroscopy*, **2011**, 42, 1160-1162	2.3	8
41	Raman spectroscopic study of the minerals diadochite and destinezite Fe3+2(PO4,SO4)2(OH)□ 6H2O: implications for soil science. *Journal of Raman Spectroscopy*, **2011**, 42, 1589-1595	2.3	8
40	Thermoanalytical studies of silver and lead jarosites and their solid solutions. *Journal of Thermal Analysis and Calorimetry*, **2010**, 101, 73-79	4.1	8
39	A novel akaganeite sorbent synthesised from waste red mud: Application for treatment of arsenate in aqueous solutions. *Journal of Environmental Chemical Engineering*, **2018**, 6, 6308-6316	6.8	8

38	Comparison of Powdered and PVC-Bound Todorokite Media for Heavy Metal Removal from Acid Mine Drainage Tailings. *Industrial & Engineering Chemistry Research*, **2018**, 57, 14315-14324	3.9	8
37	Thermal stability of crandallite CaAl3(PO4)2(OH)5(H2O). *Journal of Thermal Analysis and Calorimetry*, **2012**, 107, 905-909	4.1	7
36	Bauxite residue neutralisation precipitate stability in acidic environments. *Environmental Chemistry*, **2013**, 10, 455	3.2	7
35	Investigation of manganese greensand activation by various oxidants. *Journal of Environmental Chemical Engineering*, **2018**, 6, 4130-4143	6.8	7
34	Vibrational spectroscopy of synthetic archerite (K,NH4) and in comparison with the natural cave mineral. *Journal of Molecular Structure*, **2012**, 1011, 128-133	3.4	6
33	Thermal stability of the cave mineral ardealite Ca2(HPO4)(SO4)4H2O. *Journal of Thermal Analysis and Calorimetry*, **2012**, 107, 549-553	4.1	6
32	Raman spectroscopy of the multi anion mineral arsentsumebite Pb2Cu(AsO4)(SO4)(OH) and in comparison with tsumebite Pb2Cu(PO4)(SO4)(OH). *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **2011**, 83, 449-52	4.4	6
31	Identification of montgomeryite mineral [Ca4MgAl4(PO4)6(OH)4 12H2O] found in the Jenolan Caves-Australia. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **2012**, 94, 1-5	4.4	5
30	Vibrational Spectroscopy of the Multianion Mineral Kemmlitzite (Sr,Ce)Al3(AsO4)(SO4)(OH)6. *Spectroscopy Letters*, **2012**, 45, 482-486	1.1	5
29	Molecular structural studies of the amorphous mineral pitticite Fe, AsO4, SO4, H2O. *Journal of Molecular Structure*, **2011**, 1005, 78-82	3.4	5
28	A Raman spectroscopic study of the cave mineral ardealite Ca2(HPO4)(SO4)4H2O. *Journal of Raman Spectroscopy*, **2011**, 42, 1447-1454	2.3	5
27	A Raman spectroscopic study of bukovskite Fe2(AsO4)(SO4)(OH)7H2O, a mineral phase with a significant role in arsenic migration. *Journal of Raman Spectroscopy*, **2011**, 42, 1596-1600	2.3	5
26	Raman spectroscopy of the multi-anion mineral schlossmacherite (H3O,Ca)Al3(AsO4,PO4,SO4)2(OH)6. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **2012**, 87, 209-13	4.4	4
25	Vibrational spectroscopic study of multianion mineral clinotyrolite Ca Cu9[(As,S)O (OH)10 10(H O). *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **2012**, 95, 258-62	4.4	4
24	Raman spectroscopy of the multi-anion mineral mallestigite Pb3Sb(5+)(SO4)(AsO4)(OH)6 3H2O: a mineral of archaeological significance. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **2011**, 83, 432-6	4.4	4
23	Synthesis and vibrational spectroscopy of halotrichite and bilinite. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **2011**, 79, 69-73	4.4	4
22	Molecular structure of the mineral svanbergite SrAl3(PO4,SO4)2(OH)6 A vibrational spectroscopic study. *Journal of Molecular Structure*, **2011**, 994, 232-237	3.4	4
21	Molecular structure of Mg-Al, Mn-Al and Zn-Al halotrichites-type double sulfates--an infrared spectroscopic study. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **2011**, 78, 1633-9	4.4	4

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