

Vitezslav Zima

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101
papers

1,606
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20
h-index

34
g-index

104
ext. papers

1,660
ext. citations

4
avg, IF

4
L-index

#	Paper	IF	Citations
101	Syntheses and Structures of Organically Templated Iron Phosphates. <i>Chemistry of Materials</i> , 1998 , 10, 2599-2609	9.6	177
100	Selective oxidation of 5-hydroxymethyl-2-furaldehyde to furan-2,5-dicarboxaldehyde by catalytic systems based on vanadyl phosphate. <i>Applied Catalysis A: General</i> , 2005 , 289, 197-204	5.1	152
99	Supramolecular Assembly of Calcium Metal-Organic Frameworks with Structural Transformations. <i>Crystal Growth and Design</i> , 2011 , 11, 699-708	3.5	84
98	Synthesis and characterization of new calcium phenylphosphonates and 4-carboxyphenylphosphonates. <i>Inorganic Chemistry</i> , 2005 , 44, 9968-76	5.1	50
97	Two New Mixed-Valence Iron Phosphates Templated by Piperazine: $[(C_4H_{12}N_2)[Fe_4(OH)_2(HPO_4)_5]$ and $(C_4H_{11}N_2)_0.5[Fe_3(HPO_4)_2(PO_4)(H_2O)]$. <i>Chemistry of Materials</i> , 1998 , 10, 1914-1920	9.6	50
96	Preparation and Probable Structure of Layered Complexes of Vanadyl Phosphate with 1-Alkanols and 1,omega-Alkanediols. <i>Inorganic Chemistry</i> , 1997 , 36, 2850-2854	5.1	47
95	Vanadyl Phosphate and Its Intercalation Reactions. A Review. <i>Collection of Czechoslovak Chemical Communications</i> , 1998 , 63, 1-19		43
94	Synthesis and characterization of new zirconium 4-sulfophenylphosphonates. <i>Solid State Ionics</i> , 2010 , 181, 705-713	3.3	40
93	Synthesis, structures, and properties of alkali and alkaline earth coordination polymers based on V-shaped ligand. <i>CrystEngComm</i> , 2012 , 14, 6812	3.3	28
92	Intercalation chemistry of layered vanadyl phosphate: a review. <i>Journal of Inclusion Phenomena and Macrocyclic Chemistry</i> , 2012 , 73, 33-53		28
91	Intercalation of Poly(oxyethylene) Compounds into the $MOXO_4$ ($M = V, Nb; X = P, As$) Host Lattice. <i>Chemistry of Materials</i> , 1999 , 11, 2173-2178	9.6	27
90	Direct-mixing assembly of a magnesium coordination complex as recyclable water adsorbent. <i>CrystEngComm</i> , 2010 , 12, 1044-1047	3.3	26
89	Conductivity in $AgAsB$ (Se, Te) chalcogenide glasses. <i>Solid State Ionics</i> , 2010 , 181, 1625-1630	3.3	26
88	Synthesis and characterization of new strontium 4-carboxyphenylphosphonates. <i>Journal of Solid State Chemistry</i> , 2007 , 180, 929-939	3.3	26
87	Synthesis and characterization of a novel one-dimensional iron phosphate: $[C_4H_{12}N_2]1.5[Fe_2(OH)(H_2PO_4)(HPO_4)_2(PO_4)] \cdot 0.5H_2O$. <i>Journal of the Chemical Society Dalton Transactions</i> , 1998 , 4109-4112		25
86	New strontium phenylphosphonate: synthesis and characterization. <i>Solid State Sciences</i> , 2006 , 8, 1380-1385		25
85	Carbon nanotube-chalcogenide glass composite. <i>Journal of Solid State Chemistry</i> , 2010 , 183, 144-149	3.3	22

84	Ion conductive chalcogenide glasses in $\text{Li}_2\text{O}-\text{CaO}-\text{Sb}_2\text{O}_3-\text{GeO}_2$ system. <i>Journal of Non-Crystalline Solids</i> , 2011 , 357, 2223-2227	3.9	20
83	Synthesis and characterization of new potential intercalation hosts: Barium arylphosphonates. <i>Journal of Physics and Chemistry of Solids</i> , 2008 , 69, 1439-1443	3.9	20
82	Microwave-Assisted Intercalation of 1-Alkanols and 1,2-Alkanediols into Zirconium Phosphate. Evidence of Conformational Phase Transitions in the Bimolecular Film of Alkyl Chains. <i>Langmuir</i> , 2002 , 18, 1211-1217	4	20
81	Organization and intramolecular charge-transfer enhancement in tripodal tris[(pyridine-4-yl)phenyl]amine push-pull molecules by intercalation into layered materials bearing acidic functionalities. <i>Dalton Transactions</i> , 2014 , 43, 10462-70	4.3	18
80	Thermoanalytical Study, Phase Transitions, and Dimensional Changes of $\text{Zr}(\text{HPO}_4)_2 \cdot 2\text{H}_2\text{O}$ Large Crystals. <i>Journal of Solid State Chemistry</i> , 1997 , 132, 17-23	3.3	18
79	Tg/dta, Xrd and NH_3 -TPD Characterization of Layered $\text{VOPO}_4 \cdot 2\text{H}_2\text{O}$ and its Fe^{3+} -Substituted Compound. <i>Magyar Árvad Közlemények</i> , 1998 , 52, 615-630	0	17
78	Synthesis and Characterization of $(\text{C}_4\text{H}_{12}\text{N}_2)_2[\text{Fe}_6(\text{HPO}_4)_2(\text{PO}_4)_6(\text{H}_2\text{O})_2] \cdot \text{H}_2\text{O}$, a New Iron Phosphate Templated by Piperazine. <i>Journal of Solid State Chemistry</i> , 1998 , 139, 326-331	3.3	17
77	Glycine intercalated vanadyl and niobyl phosphates. <i>Solid State Ionics</i> , 1998 , 106, 285-290	3.3	17
76	Conductivity and permittivity study on silver and silver halide doped $\text{GeS}_2-\text{Ca}_2\text{S}_3$ glassy system. <i>Solid State Ionics</i> , 2008 , 179, 1867-1875	3.3	17
75	Properties and structure of $\text{Ag}_x(\text{As}_{0.33}\text{S}_{0.67})_{100-x}$ bulk glasses. <i>Journal of Non-Crystalline Solids</i> , 2007 , 353, 1232-1237	3.9	17
74	Synthesis and Characterization of Vanadyl Phosphate Intercalated with Dioxane, Trioxane, and 18-Crown-6. <i>Chemistry of Materials</i> , 2002 , 14, 2788-2795	9.6	17
73	Redox intercalation reaction of crystalline $\text{VOPO}_4 \cdot 2\text{H}_2\text{O}$ with NaI solution in acetone. <i>Polyhedron</i> , 1993 , 12, 181-185	2.7	17
72	Layered compounds derived from vanadyl phosphate dihydrate. <i>Materials Research Bulletin</i> , 1995 , 30, 1115-1120	5.1	16
71	Assembly of a water-insoluble strontium metal-organic framework with luminescent properties. <i>Inorganic Chemistry Communication</i> , 2011 , 14, 1602-1605	3.1	15
70	Electric properties and structure of $\text{Ag}_x(\text{As}_{0.33}\text{S}_{0.335}\text{Se}_{0.335})_{100-x}$ bulk glasses. <i>Journal of Physics and Chemistry of Solids</i> , 2007 , 68, 958-962	3.9	15
69	Layered double hydroxide intercalated with p-methylbenzoate and p-bromobenzoate: molecular simulations and XRD analysis. <i>Journal of Colloid and Interface Science</i> , 2008 , 319, 19-24	9.3	15
68	2-Alkanol Intercalated VOPO_4 and NbOPO_4 : Structure Modeling of Intercalate Layers. <i>Journal of Inclusion Phenomena and Macrocyclic Chemistry</i> , 2001 , 40, 131-138		15
67	Possible Mechanisms of Intercalation. <i>Journal of Inclusion Phenomena and Macrocyclic Chemistry</i> , 1998 , 31, 275-286		14

66	Intercalation of VOPO ₄ ·2H ₂ O with lithium ions. <i>Solid State Ionics</i> , 1994 , 67, 277-280	3.3	14
65	Synthesis, Characterization, and Intercalation of Vanadyl Phosphate Modified with Manganese. <i>Journal of Solid State Chemistry</i> , 1995 , 116, 400-405	3.3	14
64	Thermal, structural and acidic characterization of some vanadyl phosphate materials modified with trivalent metal cations. <i>Journal of Theoretical Biology</i> , 1997 , 50, 355-364	2.3	13
63	New barium 4-carboxyphenylphosphonates: Synthesis, characterization and interconversions. <i>Solid State Sciences</i> , 2008 , 10, 1533-1542	3.4	13
62	Intercalation of cyclic ethers into vanadyl phosphate. <i>Chemistry - A European Journal</i> , 2002 , 8, 1703-9	4.8	13
61	Intercalation of Aldehydes into Vanadyl Phosphate. <i>Journal of Solid State Chemistry</i> , 2001 , 157, 50-55	3.3	13
60	Intercalation of VOPO ₄ · 2H ₂ O with hydronium and potassium ions. <i>Solid State Ionics</i> , 1995 , 82, 33-38	3.3	13
59	Electrical-Transport Properties of Hydrated and Anhydrous Vanadyl Phosphate in the Temperature Range 20-100 °C. <i>Chemistry of Materials</i> , 1996 , 8, 2505-2509	9.6	13
58	Intumescent coatings based on an organic-inorganic hybrid resin and the effect of mineral fibres on fire-resistant properties of intumescent coatings. <i>Pigment and Resin Technology</i> , 2011 , 40, 247-253	1	12
57	Synthesis and characterization of copper 4-carboxyphenylphosphonates. <i>Journal of Solid State Chemistry</i> , 2009 , 182, 3155-3161	3.3	12
56	Intercalates of Vanadyl and Niobyl Phosphates with C ₄ Diols. <i>Journal of Solid State Chemistry</i> , 2000 , 151, 225-230	3.3	12
55	Thermomechanical and thermoelectrical properties of vanadyl phosphate dihydrate. <i>Materials Research Bulletin</i> , 1994 , 29, 687-692	5.1	12
54	Ion-Exchange Properties of Alkali-Metal Redox-Intercalated Vanadyl Phosphate. <i>Journal of Solid State Chemistry</i> , 2002 , 163, 281-285	3.3	11
53	Synthesis and crystal structures of (NH ₃ CH ₂ CH ₂ NH ₃) _{1.5} [(VO) ₂ (HPO ₄) ₂ (PO ₄)] and (C ₄ H ₁₂ N ₂) ₂ [V ₄ O ₆ H(HPO ₄) ₂ (PO ₄) ₂], two layered vanadium phosphates templated with organic diamines. <i>Journal of Solid State Chemistry</i> , 2003 , 172, 424-430	3.3	11
52	Intercalation chemistry of zirconium 4-sulfophenylphosphonate. <i>Journal of Solid State Chemistry</i> , 2013 , 208, 58-64	3.3	10
51	Intercalation of Dyes Containing SO ₃ H Groups into Zn-Al Layered Double Hydroxide. <i>Journal of Inclusion Phenomena and Macrocyclic Chemistry</i> , 2005 , 51, 97-101		10
50	Intercalation of Ketones in Vanadyl Phosphate and Isostructural Hosts. <i>Collection of Czechoslovak Chemical Communications</i> , 1999 , 64, 1975-1979		10
49	Intercalation Compounds of Vanadyl Phosphate Dihydrate with Rubidium Ion and Their Electrical Properties. <i>Chemistry of Materials</i> , 1999 , 11, 3258-3262	9.6	9

48	Intercalation of Tartrazine Into ZnAl and MgAl Layered Double Hydroxides. <i>Collection of Czechoslovak Chemical Communications</i> , 2005 , 70, 259-268		9
47	Intercalation behavior of calcium phenylphosphonate dihydrate $\text{CaC}_6\text{H}_5\text{PO}_3 \cdot 2\text{H}_2\text{O}$. <i>Journal of Inclusion Phenomena and Macrocyclic Chemistry</i> , 2010 , 66, 279-284		8
46	Intercalation of 1-Alkanols and 1,2-Alkanediols into NbOPO_4 and NbOAsO_4 . <i>Journal of Solid State Chemistry</i> , 1998 , 141, 64-69	3-3	8
45	Intercalation of β -Butyrolactone into Vanadyl Phosphate and Niobyl Arsenate. <i>European Journal of Inorganic Chemistry</i> , 2004 , 2004, 570-574	2-3	8
44	Formation of a disordered layer lattice during the intercalation of water into anhydrous vanadyl phosphate. <i>Journal of Inclusion Phenomena and Macrocyclic Chemistry</i> , 1994 , 20, 381-391		8
43	New copper aryl phosphonates with auxiliary nitrogen ligands. <i>CrystEngComm</i> , 2012 , 14, 3469	3-3	7
42	Structure analysis of hydrotalcite intercalated with pyrenetetrasulfonate; experiments and molecular modelling. <i>Journal of Molecular Modeling</i> , 2008 , 14, 1119-29	2	7
41	Intercalates of Vanadyl Phosphate with Aliphatic Nitriles. <i>Journal of Inclusion Phenomena and Macrocyclic Chemistry</i> , 2002 , 43, 95-99		7
40	Kinetics and reaction products of the photo-induced solid state chemical reaction between silver and amorphous $(\text{As}_0.33\text{S}_0.67)_{100-x}\text{Te}_x$ layers. <i>Journal of Non-Crystalline Solids</i> , 1996 , 198-200, 744-748	3-9	7
39	Relative ionization cross-sections of oxygenated C(4) molecules. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1990 , 97, 117-124		7
38	Intercalates of Strontium Phenylphosphonate with Alcohols – Structure Analysis by Experimental and Molecular Modeling Methods. <i>European Journal of Inorganic Chemistry</i> , 2015 , 2015, 1552-1561	2-3	6
37	Intercalation behavior of barium phenylphosphonate. <i>Journal of Physics and Chemistry of Solids</i> , 2010 , 71, 530-533	3-9	6
36	Intercalation of aminonaphthalenes into Zirconium hydrogenphosphate. <i>Journal of Physics and Chemistry of Solids</i> , 2007 , 68, 803-807	3-9	6
35	Vanadyl phosphate intercalated with dimethyl sulfoxide. <i>Journal of Physics and Chemistry of Solids</i> , 2006 , 67, 956-960	3-9	6
34	Preparation of ammonium intercalated vanadyl phosphate by redox intercalation and ion exchange. <i>Journal of Solid State Chemistry</i> , 2004 , 177, 1173-1178	3-3	6
33	Intercalates of Vanadyl Phosphate with Dinitriles. <i>Journal of Inclusion Phenomena and Macrocyclic Chemistry</i> , 2003 , 45, 235-239		6
32	Intercalation of 1,2-alkanediols into Vanadyl and Niobyl Phosphate. <i>Journal of Inclusion Phenomena and Macrocyclic Chemistry</i> , 2000 , 36, 301-309		6
31	Intercalation of 1-Alkanol Binary Mixtures into the Layered Structure of Vanadyl Phosphate. <i>Journal of Inclusion Phenomena and Macrocyclic Chemistry</i> , 1999 , 33, 391-402		6

30	Volumetric method for following the rate of intercalation of liquid molecular guests into layered hosts. <i>Journal of Inclusion Phenomena and Macrocyclic Chemistry</i> , 1993 , 15, 71-78		6
29	Strontium Methylphosphonate Trihydrate: An Example of a New Class of Host Materials for Intercalation Reactions [Synthesis, Structure and Intercalation Behavior. <i>European Journal of Inorganic Chemistry</i> , 2011 , 2011, 850-859	2.3	5
28	Study of microstructure in Ag _x (As _{0.33} Se _{0.67}) _{100-x} chalcogenide glasses. <i>Journal of Non-Crystalline Solids</i> , 2009 , 355, 2054-2058	3.9	5
27	Electrical conductivity of Ag _x (As ₄₀ Se ₆₀) _{100-x} bulk glasses. <i>Journal of Non-Crystalline Solids</i> , 2003 , 326-327, 159-164	3.9	5
26	Intercalation of 2-Naphthol-3,6-disulfonate, 9,10-Anthraquinone-2,6-disulfonate, and 9,10-Anthraquinone-2-sulfonate Anions into ZnAl Layered Double Hydroxide. <i>Journal of Inclusion Phenomena and Macrocyclic Chemistry</i> , 2005 , 53, 41-46		5
25	A kinetic study of the intercalation of ethanol into vanadyl phosphate. <i>Journal of Inclusion Phenomena and Macrocyclic Chemistry</i> , 1996 , 26, 311-319		5
24	Structural Arrangement of 4-[4-(Dimethylamino)phenylazo]pyridine PushPull Molecules in Acidic Layered Hosts Solved by Experimental and Calculation Methods. <i>European Journal of Inorganic Chemistry</i> , 2017 , 2017, 115-123	2.3	4
23	Intercalation of cyclic ketones into vanadyl phosphate. <i>Journal of Solid State Chemistry</i> , 2005 , 178, 314-330		4
22	A Kinetic Study of the Dehydration of VOPO ₄ ·2H ₂ O by Thermal Methods. <i>Journal of Inclusion Phenomena and Macrocyclic Chemistry</i> , 2000 , 36, 163-178		4
21	Exfoliation of layered mixed zirconium 4-sulfophenylphosphonate phenylphosphonates. <i>Dalton Transactions</i> , 2020 , 49, 3816-3823	4.3	4
20	Formation of Layered Proton-Conducting Zirconium and Titanium Organophosphonates by Topotactic Reaction: Physicochemical Properties, Proton Dynamics, and Atomic-Resolution Structure. <i>Inorganic Chemistry</i> , 2020 , 59, 505-513	5.1	4
19	Alkaline-earth metal phenylphosphonates and their intercalation chemistry. <i>Dalton Transactions</i> , 2018 , 47, 2867-2880	4.3	3
18	Alkaline-earth metal phosphonocarboxylates: synthesis, structures, chirality, and luminescence properties. <i>Dalton Transactions</i> , 2013 , 42, 15332-42	4.3	3
17	Intercalation of esters into vanadyl phosphate. <i>Journal of Physics and Chemistry of Solids</i> , 2007 , 68, 765-769		3
16	Intercalates of Vanadyl Phosphate with Benzonitrile and Tolunitrile. <i>European Journal of Inorganic Chemistry</i> , 2003 , 2003, 3662-3667	2.3	3
15	Electrical conductivity of MOXO ₄ (M=V, Nb; X=P, As) compounds intercalated with H ₂ O and H ₃ XO ₄ . <i>Journal of Solid State Chemistry</i> , 2005 , 178, 1778-1785	3.3	3
14	Solid-state reactions of vanadium(V) phosphates in the presence of ammonia. <i>Journal of Materials Chemistry</i> , 1999 , 9, 2523-2527		3
13	Outerly functionalized and non-functionalized boron clusters intercalated into layered hydroxides with different modes of binding: materials for superacid storage. <i>Dalton Transactions</i> , 2018 , 47, 11669-11679	4.3	3

12	Thermal Behavior of Tetrahydropyran-Intercalated VOPO ₄ : Structural and Dynamics Study. <i>European Journal of Inorganic Chemistry</i> , 2007 , 2007, 444-451	2.3	2
11	Intercalation of lactones into vanadyl phosphate. <i>Journal of Physics and Chemistry of Solids</i> , 2006 , 67, 961-964	3.9	2
10	Intercalation of Dimethyl Carbonate, Diethyl Carbonate and Ethylene Carbonate into Vanadyl Phosphate. <i>Journal of Inclusion Phenomena and Macrocyclic Chemistry</i> , 2006 , 54, 271-274		2
9	How Intercalated Sodium, Copper, and Iron Cations Influence the Structural Arrangement of Zirconium Sulfophenylphosphonate Layers? Theoretical and Experimental Points of View. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 2488-2495	3.8	2
8	Intercalation of 1,2-Alkanediols into Zirconium Hydrogenphosphate. <i>Journal of Inclusion Phenomena and Macrocyclic Chemistry</i> , 2007 , 58, 95-101		1
7	Intercalation of Toluidines into Zirconium Hydrogenphosphate. <i>Journal of Inclusion Phenomena and Macrocyclic Chemistry</i> , 2006 , 55, 289-293		1
6	Adsorption of Vapours of Some Organic Compounds on Surface of Iron-Substituted Layered Vanadyl Phosphate. <i>Collection of Czechoslovak Chemical Communications</i> , 2000 , 65, 47-57		1
5	Protonic conductivity of polycrystalline materials evaluated with effective medium percolation approach: A case study on lithium-carboxylate based MOF. <i>Solid State Ionics</i> , 2016 , 292, 98-102	3.3	1
4	Layered calcium phenylphosphonate: a hybrid material for a new generation of nanofillers. <i>Beilstein Journal of Nanotechnology</i> , 2018 , 9, 2906-2915	3	1
3	Synthesis and characterization of new barium methylphosphonates. <i>Dalton Transactions</i> , 2017 , 46, 5363-5372	4.3	1
2	How N-(pyridin-4-yl)pyridin-4-amine and its methyl and nitro derivatives are arranged in the interlayer space of zirconium sulfophenylphosphonate: a problem solved by experimental and calculation methods. <i>Journal of Computer-Aided Molecular Design</i> , 2020 , 34, 683-695	4.2	
1	In situ high pressure phase transition of alcohol intercalated zirconium phosphate observed by synchrotron X-ray scattering. <i>Journal of Physics and Chemistry of Solids</i> , 2004 , 65, 615-618	3.9	