

Vitezslav Zima

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

101
papers

1,606
citations

20
h-index

34
g-index

104
ext. papers

1,660
ext. citations

4
avg, IF

4
L-index

#	Paper	IF	Citations
101	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	
100	Exfoliation of layered mixed zirconium 4-sulfophenylphosphonate phenylphosphonates. <i>Dalton Transactions</i> , 2020 , 49, 3816-3823	4.3	4
99	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
98	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
97	Alkaline-earth metal phenylphosphonates and their intercalation chemistry. <i>Dalton Transactions</i> , 2018 , 47, 2867-2880	4.3	3
96	Layered calcium phenylphosphonate: a hybrid material for a new generation of nanofillers. <i>Beilstein Journal of Nanotechnology</i> , 2018 , 9, 2906-2915	3	1
95	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
94	Synthesis and characterization of new barium methylphosphonates. <i>Dalton Transactions</i> , 2017 , 46, 5363-5372	4.3	3
93	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
92	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
91	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
90	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
89	Alkaline-earth metal phosphonocarboxylates: synthesis, structures, chirality, and luminescence properties. <i>Dalton Transactions</i> , 2013 , 42, 15332-42	4.3	3
88	Intercalation chemistry of zirconium 4-sulfophenylphosphonate. <i>Journal of Solid State Chemistry</i> , 2013 , 208, 58-64	3.3	10
87	New copper aryl phosphonates with auxiliary nitrogen ligands. <i>CrystEngComm</i> , 2012 , 14, 3469	3.3	7
86	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
85	Intercalation chemistry of layered vanadyl phosphate: a review. <i>Journal of Inclusion Phenomena and Macrocyclic Chemistry</i> , 2012 , 73, 33-53		28

84	Ion conductive chalcogenide glasses in $\text{Li}_{1-x}\text{Ca}_x\text{S}_3\text{GeS}_2$ system. <i>Journal of Non-Crystalline Solids</i> , 2011 , 357, 2223-2227	3.9	20
83	Supramolecular Assembly of Calcium Metal-Organic Frameworks with Structural Transformations. <i>Crystal Growth and Design</i> , 2011 , 11, 699-708	3.5	84
82	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
81	Assembly of a water-insoluble strontium metal-organic framework with luminescent properties. <i>Inorganic Chemistry Communication</i> , 2011 , 14, 1602-1605	3.1	15
80	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
79	Direct-mixing assembly of a magnesium coordination complex as recyclable water adsorbent. <i>CrystEngComm</i> , 2010 , 12, 1044-1047	3.3	26
78	Synthesis and characterization of new zirconium 4-sulfophenylphosphonates. <i>Solid State Ionics</i> , 2010 , 181, 705-713	3.3	40
77	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
76	Carbon nanotube-chalcogenide glass composite. <i>Journal of Solid State Chemistry</i> , 2010 , 183, 144-149	3.3	22
75	Intercalation behavior of barium phenylphosphonate. <i>Journal of Physics and Chemistry of Solids</i> , 2010 , 71, 530-533	3.9	6
74	Conductivity in $\text{Ag}_{1-x}\text{As}_x(\text{Se}, \text{Te})$ chalcogenide glasses. <i>Solid State Ionics</i> , 2010 , 181, 1625-1630	3.3	26
73	Synthesis and characterization of copper 4-carboxyphenylphosphonates. <i>Journal of Solid State Chemistry</i> , 2009 , 182, 3155-3161	3.3	12
72	Study of microstructure in $\text{Ag}_x(\text{As}_{0.33}\text{Se}_{0.67})_{100-x}$ chalcogenide glasses. <i>Journal of Non-Crystalline Solids</i> , 2009 , 355, 2054-2058	3.9	5
71	New barium 4-carboxyphenylphosphonates: Synthesis, characterization and interconversions. <i>Solid State Sciences</i> , 2008 , 10, 1533-1542	3.4	13
70	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
69	Structure analysis of hydroxalcite intercalated with pyrenetetrasulfonate; experiments and molecular modelling. <i>Journal of Molecular Modeling</i> , 2008 , 14, 1119-29	2	7
68	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
67	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

66	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
65	Synthesis and characterization of new strontium 4-carboxyphenylphosphonates. <i>Journal of Solid State Chemistry</i> , 2007 , 180, 929-939	3.3	26
64	Intercalation of esters into vanadyl phosphate. <i>Journal of Physics and Chemistry of Solids</i> , 2007 , 68, 765-769	3.9	3
63	Intercalation of aminonaphthalenes into Zirconium hydrogenphosphate. <i>Journal of Physics and Chemistry of Solids</i> , 2007 , 68, 803-807	3.9	6
62	Electric properties and structure of Ag _x (As _{0.33} S _{0.33} Se _{0.33}) _{100-x} bulk glasses. <i>Journal of Physics and Chemistry of Solids</i> , 2007 , 68, 958-962	3.9	15
61	Intercalation of 1,2-Alkanediols into Zirconium Hydrogenphosphate. <i>Journal of Inclusion Phenomena and Macrocyclic Chemistry</i> , 2007 , 58, 95-101		1
60	Properties and structure of Ag _x (As _{0.33} S _{0.67}) _{100-x} bulk glasses. <i>Journal of Non-Crystalline Solids</i> , 2007 , 353, 1232-1237	3.9	17
59	New strontium phenylphosphonate: synthesis and characterization. <i>Solid State Sciences</i> , 2006 , 8, 1380-1385	3.9	25
58	Vanadyl phosphate intercalated with dimethyl sulfoxide. <i>Journal of Physics and Chemistry of Solids</i> , 2006 , 67, 956-960	3.9	6
57	Intercalation of lactones into vanadyl phosphate. <i>Journal of Physics and Chemistry of Solids</i> , 2006 , 67, 961-964	3.9	2
56	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
55	Intercalation of Toluidines into Zirconium Hydrogenphosphate. <i>Journal of Inclusion Phenomena and Macrocyclic Chemistry</i> , 2006 , 55, 289-293		1
54	Synthesis and characterization of new calcium phenylphosphonates and 4-carboxyphenylphosphonates. <i>Inorganic Chemistry</i> , 2005 , 44, 9968-76	5.1	50
53	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
52	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
51	Intercalation of cyclic ketones into vanadyl phosphate. <i>Journal of Solid State Chemistry</i> , 2005 , 178, 314-320	3.3	4
50	Intercalation of Dyes Containing SO ₃ H Groups into ZnAl Layered Double Hydroxide. <i>Journal of Inclusion Phenomena and Macrocyclic Chemistry</i> , 2005 , 51, 97-101		10
49	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

48	Intercalation of Tartrazine Into ZnAl and MgAl Layered Double Hydroxides. <i>Collection of Czechoslovak Chemical Communications</i> , 2005 , 70, 259-268		9
47	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
46	Intercalation of β -Butyrolactone into Vanadyl Phosphate and Niobyl Arsenate. <i>European Journal of Inorganic Chemistry</i> , 2004 , 2004, 570-574	2.3	8
45	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	
44	Intercalates of Vanadyl Phosphate with Dinitriles. <i>Journal of Inclusion Phenomena and Macrocyclic Chemistry</i> , 2003 , 45, 235-239		6
43	Intercalates of Vanadyl Phosphate with Benzonitrile and Tolunitrile. <i>European Journal of Inorganic Chemistry</i> , 2003 , 2003, 3662-3667	2.3	3
42	Synthesis and crystal structures of $(\text{NH}_3\text{CH}_2\text{CH}_2\text{NH}_3)_{1.5}[(\text{VO})_2(\text{HPO}_4)_2(\text{PO}_4)]$ and $(\text{C}_4\text{H}_{12}\text{N}_2)_2[\text{V}_4\text{O}_6\text{H}(\text{HPO}_4)_2(\text{PO}_4)_2]$, two layered vanadium phosphates templated with organic diamines. <i>Journal of Solid State Chemistry</i> , 2003 , 172, 424-430	3.3	11
41	Electrical conductivity of $\text{Ag}_x(\text{As}_{40}\text{Se}_{60})_{100-x}$ bulk glasses. <i>Journal of Non-Crystalline Solids</i> , 2003 , 326-327, 159-164	3.9	5
40	Intercalation of cyclic ethers into vanadyl phosphate. <i>Chemistry - A European Journal</i> , 2002 , 8, 1703-9	4.8	13
39	Ion-Exchange Properties of Alkali-Metal Redox-Intercalated Vanadyl Phosphate. <i>Journal of Solid State Chemistry</i> , 2002 , 163, 281-285	3.3	11
38	Intercalates of Vanadyl Phosphate with Aliphatic Nitriles. <i>Journal of Inclusion Phenomena and Macrocyclic Chemistry</i> , 2002 , 43, 95-99		7
37	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
36	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
35	Intercalation of Aldehydes into Vanadyl Phosphate. <i>Journal of Solid State Chemistry</i> , 2001 , 157, 50-55	3.3	13
34	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
33	Intercalates of Vanadyl and Niobyl Phosphates with C_4 Diols. <i>Journal of Solid State Chemistry</i> , 2000 , 151, 225-230	3.3	12
32	A Kinetic Study of the Dehydration of $\text{VOPO}_4 \cdot 2\text{H}_2\text{O}$ by Thermal Methods. <i>Journal of Inclusion Phenomena and Macrocyclic Chemistry</i> , 2000 , 36, 163-178		4
31	Intercalation of 1,2-alkanediols into Vanadyl and Niobyl Phosphate. <i>Journal of Inclusion Phenomena and Macrocyclic Chemistry</i> , 2000 , 36, 301-309		6

30	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
29	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
28	Solid-state reactions of vanadium(V) phosphates in the presence of ammonia. <i>Journal of Materials Chemistry</i> , 1999 , 9, 2523-2527		3
27	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
26	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
25	Intercalation of Ketones in Vanadyl Phosphate and Isostructural Hosts. <i>Collection of Czechoslovak Chemical Communications</i> , 1999 , 64, 1975-1979		10
24	Tg/dta, Xrd and NH ₃ -TPD Characterization of Layered VOPO ₄ ·2H ₂ O and its Fe ³⁺ -Substituted Compound. <i>Magyar Árvad Kémia</i> , 1998 , 52, 615-630	0	17
23	Possible Mechanisms of Intercalation. <i>Journal of Inclusion Phenomena and Macrocyclic Chemistry</i> , 1998 , 31, 275-286		14
22	Synthesis and Characterization of (C ₄ H ₁₂ N ₂) ₂ [Fe ₆ (HPO ₄) ₂ (PO ₄) ₆ (H ₂ O) ₂]·H ₂ O, a New Iron Phosphate Templated by Piperazine. <i>Journal of Solid State Chemistry</i> , 1998 , 139, 326-331	3.3	17
21	Intercalation of 1-Alkanols and 1,ω-Alkanediols into NbOPO ₄ and NbOAsO ₄ . <i>Journal of Solid State Chemistry</i> , 1998 , 141, 64-69	3.3	8
20	Glycine intercalated vanadyl and niobyl phosphates. <i>Solid State Ionics</i> , 1998 , 106, 285-290	3.3	17
19	Synthesis and characterization of a novel one-dimensional iron phosphate: [C ₄ H ₁₂ N ₂] _{1.5} [Fe ₂ (OH)(H ₂ PO ₄)(HPO ₄) ₂ (PO ₄)]·1.5H ₂ O. <i>Journal of the Chemical Society Dalton Transactions</i> , 1998 , 4109-4112		25
18	Syntheses and Structures of Organically Templated Iron Phosphates. <i>Chemistry of Materials</i> , 1998 , 10, 2599-2609	9.6	177
17	Two New Mixed-Valence Iron Phosphates Templated by Piperazine: [(C ₄ H ₁₂ N ₂)][Fe ₄ (OH) ₂ (HPO ₄) ₅] and (C ₄ H ₁₁ N ₂) _{0.5} [Fe ₃ (HPO ₄) ₂ (PO ₄)(H ₂ O)]. <i>Chemistry of Materials</i> , 1998 , 10, 1914-1920	9.6	50
16	Vanadyl Phosphate and Its Intercalation Reactions. A Review. <i>Collection of Czechoslovak Chemical Communications</i> , 1998 , 63, 1-19		43
15	Preparation and Probable Structure of Layered Complexes of Vanadyl Phosphate with 1-Alkanols and 1,ω-Alkanediols. <i>Inorganic Chemistry</i> , 1997 , 36, 2850-2854	5.1	47
14	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
13	Thermoanalytical Study, Phase Transitions, and Dimensional Changes of Zr(HPO ₄) ₂ ·H ₂ O Large Crystals. <i>Journal of Solid State Chemistry</i> , 1997 , 132, 17-23	3.3	18

12	Electrical-Transport Properties of Hydrated and Anhydrous Vanadyl Phosphate in the Temperature Range 20-200 °C. <i>Chemistry of Materials</i> , 1996 , 8, 2505-2509	9.6	13
11	Kinetics and reaction products of the photo-induced solid state chemical reaction between silver and amorphous (As _{0.33} S _{0.67}) _{100-x} Te _x layers. <i>Journal of Non-Crystalline Solids</i> , 1996 , 198-200, 744-748	3.9	7
10	A kinetic study of the intercalation of ethanol into vanadyl phosphate. <i>Journal of Inclusion Phenomena and Macrocylic Chemistry</i> , 1996 , 26, 311-319		5
9	Intercalation of VOPO ₄ · 2H ₂ O with hydronium and potassium ions. <i>Solid State Ionics</i> , 1995 , 82, 33-38	3.3	13
8	Layered compounds derived from vanadyl phosphate dihydrate. <i>Materials Research Bulletin</i> , 1995 , 30, 1115-1120	5.1	16
7	Synthesis, Characterization, and Intercalation of Vanadyl Phosphate Modified with Manganese. <i>Journal of Solid State Chemistry</i> , 1995 , 116, 400-405	3.3	14
6	Formation of a disordered layer lattice during the intercalation of water into anhydrous vanadyl phosphate. <i>Journal of Inclusion Phenomena and Macrocylic Chemistry</i> , 1994 , 20, 381-391		8
5	Intercalation of VOPO ₄ · 2H ₂ O with lithium ions. <i>Solid State Ionics</i> , 1994 , 67, 277-280	3.3	14
4	Thermomechanical and thermoelectrical properties of vanadyl phosphate dihydrate. <i>Materials Research Bulletin</i> , 1994 , 29, 687-692	5.1	12
3	Volumetric method for following the rate of intercalation of liquid molecular guests into layered hosts. <i>Journal of Inclusion Phenomena and Macrocylic Chemistry</i> , 1993 , 15, 71-78		6
2	Redox intercalation reaction of crystalline VOPO ₄ · 2H ₂ O with NaI solution in acetone. <i>Polyhedron</i> , 1993 , 12, 181-185	2.7	17
1	Relative ionization cross-sections of oxygenated C(4) molecules. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1990 , 97, 117-124		7