

# Viktor Stefov

## List of Publications by Year in descending order

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28  
papers

324  
citations

933447

10  
h-index

839539

18  
g-index

28  
all docs

28  
docs citations

28  
times ranked

255  
citing authors

#	ARTICLE	IF	CITATIONS
1	Vibrational spectra of hexaaqua complexes III. Internal and external motions of the water molecules in the spectra of $[\text{Cr}(\text{H}_2\text{O})_6]\text{Cl}_3$ . <i>Journal of Molecular Structure</i> , 1993, 293, 97-100.	3.6	48
2	Very low $\text{H}\hat{=}\text{O}\hat{=}\text{H}$ bending frequencies. IV. Fourier transform infrared spectra of synthetic dittmarite. <i>Journal of Molecular Structure</i> , 2002, 613, 7-14.	3.6	40
3	The $\text{I}\hat{=}\text{C}$ -type hydrogen bond with triple $\text{C}\hat{=}\text{C}$ bond acting as a proton-acceptor. A gradient-corrected hybrid HF-DFT and MP2 study of the phenol-acetylene dimer in the neutral $\text{S}_0$ ground state. <i>Chemical Physics</i> , 2006, 323, 259-270.	1.9	36
4	Fourier transform infrared and Raman spectra of manganese hydrogenphosphate trihydrate. <i>Journal of Molecular Structure</i> , 1999, 482-483, 103-107.	3.6	19
5	Fourier Transform Vibrational Spectra of Magnesium Hydrogenphosphate Trihydrate. I. The O-H Stretching Region. <i>Spectroscopy Letters</i> , 1998, 31, 1191-1205.	1.0	17
6	Target-testing factor analysis of Fourier transform infrared spectra as a tool for the determination of the composition of human urinary calculi. <i>Vibrational Spectroscopy</i> , 1999, 19, 249-253.	2.2	15
7	Thermal, spectral and microscopic studies of water-rich hydrate of the type $\text{Mg}_2\text{KH}(\text{PO}_4)_2 \cdot 15\text{H}_2\text{O}$ . Thermal transformations. <i>Thermochimica Acta</i> , 2015, 619, 20-25.	2.7	13
8	Determination of the composition of human urinary calculi composed of whewellite, weddellite and carbonate apatite using artificial neural networks. <i>Analytica Chimica Acta</i> , 2003, 491, 211-218.	5.4	12
9	Experimental and quantum chemical study of pyrrole self-association through $\text{N}\hat{=}\text{H}\hat{=}\text{N}$ hydrogen bonding. <i>Journal of Molecular Structure</i> , 2003, 651-653, 793-805.	3.6	12
10	Fourier transform infrared and Raman spectra of the green chromium(III) chloride hexahydrate. <i>Journal of Molecular Structure</i> , 1999, 482-483, 109-113.	3.6	11
11	Fourier transform infrared study of the temperature-induced structural changes in diammonium diaquatetabromocuprate(II). <i>Vibrational Spectroscopy</i> , 1999, 19, 431-434.	2.2	10
12	Simultaneous determination of composition of human urinary calculi by use of artificial neural networks. <i>Fresenius' Journal of Analytical Chemistry</i> , 2001, 370, 919-923.	1.5	10
13	Preparation, Structural, Thermogravimetric and Spectroscopic Study of Magnesium Potassium Arsenate Hexahydrate. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2014, 640, 3177-3183.	1.2	10
14	Vibrational Spectra of hexaaqua complexes. II. external motions of water molecules in the spectra of $\text{AlCl}_3 \cdot 6\text{H}_2\text{O}$ . <i>Journal of Molecular Structure</i> , 1992, 267, 203-208.	3.6	9
15	Characterization and thermal decomposition of $\text{Mg}_2\text{KH}(\text{AsO}_4)_2 \cdot 15\text{H}_2\text{O}$ . <i>Journal of Thermal Analysis and Calorimetry</i> , 2017, 127, 1911-1919.	3.6	9
16	Vibrational Spectra of Magnesium Hydrogenphosphate Trihydrate and of its Manganese Analogue. Phosphorus, Sulfur and Silicon and the Related Elements, 1996, 111, 9-9.	1.6	8
17	Dicesium trans-Tetraaquadichlorochromium(III) Chloride: Redetermination of the Crystal Structure and Infrared Study of the Water Spectrum. <i>Inorganic Chemistry</i> , 1997, 36, 2248-2251.	4.0	8
18	Synthesis, identification, structural and thermal stability investigations on bipyridinium uranyl acetate. <i>Thermochimica Acta</i> , 2002, 389, 71-77.	2.7	8

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19	Infrared and Raman Spectra of Magnesium Ammonium Phosphate Hexahydrate (Struvite) and Its Isomorphous Analogues. , 2004, , 299-308.		6
20	Infrared Spectra of Dicesiumtrans-Tetraaquadichlorochromium (III) Chloride. Spectroscopy Letters, 1993, 26, 1839-1853.	1.0	5
21	Synthesis, characterization and thermal decomposition of pyridinium uranyl acetate. Thermochemica Acta, 2000, 348, 169-174.	2.7	5
22	Very low HOH bending vibrations. V. Quantum chemical study of water bending vibrations in MgKPO <sub>4</sub> ·H <sub>2</sub> O. Journal of Molecular Structure, 2004, 706, 101-106.	3.6	4
23	Infrared spectra of rubidium and cesium diaquatetrachloro-manganates. II. External vibrations of the water molecules. Journal of Molecular Structure, 1992, 266, 211-216.	3.6	3
24	Infrared spectra of rubidium diaquatetrachloronickelate(II). Journal of Molecular Structure, 1993, 293, 105-108.	3.6	2
25	Infrared evidence for a phase transition in ammonium diaquatetrachloromanganate(II). Journal of Molecular Structure, 1997, 408-409, 341-344.	3.6	2
26	Tricesium trans-tetraaquadichlorovanadium(III) tetrachloride: redetermination of the crystal structure and infrared study of the water spectrum. Journal of Molecular Structure, 2004, 707, 109-114.	3.6	1
27	Vibrational spectra of Cs <sub>2</sub> CaCl <sub>4</sub> ·2H <sub>2</sub> O. Vibrational Spectroscopy, 2011, 55, 188-194.	2.2	1
28	Spectral and thermal studies of MgI <sub>2</sub> ·8H <sub>2</sub> O. Journal of Molecular Structure, 2017, 1146, 744-749.	3.6	0