

Georgios D Chryssikos

List of Publications by Year in descending order

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88
papers

4,848
citations

94433

37
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95266

68
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88
all docs

88
docs citations

88
times ranked

3304
citing authors

#	ARTICLE	IF	CITATIONS
1	Infrared reflectance spectra of lithium borate glasses. Journal of Non-Crystalline Solids, 1990, 126, 52-67.	3.1	630
2	Vibrational spectra of magnesium-sodium-borate glasses. 2. Raman and mid-infrared investigation of the network structure. The Journal of Physical Chemistry, 1987, 91, 1073-1079.	2.9	584
3	Time domain reflection methods for dielectric measurements to 10 GHz. Journal of Applied Physics, 1989, 66, 793-802.	2.5	306
4	Borate glass structure by Raman and infrared spectroscopies. Journal of Molecular Structure, 1991, 247, 1-16.	3.6	246
5	Infrared reflectance investigation of alkali diborate glasses. Journal of Non-Crystalline Solids, 1993, 152, 246-257.	3.1	151
6	Raman and Infrared Structural Investigation of $x\text{Rb}_2\text{O} \cdot (1-x)\text{GeO}_2$ Glasses. The Journal of Physical Chemistry, 1996, 100, 11755-11765.	2.9	136
7	Bone diagenesis: New data from infrared spectroscopy and X-ray diffraction. Palaeogeography, Palaeoclimatology, Palaeoecology, 2008, 266, 168-174.	2.3	99
8	Cation-network interactions in binary alkali metal borate glasses. A far-infrared study. The Journal of Physical Chemistry, 1987, 91, 5807-5813.	2.9	87
9	A combined synchrotron powder diffraction and vibrational study of the thermal treatment of palygorskite to produce Maya blue. Journal of Materials Science, 2009, 44, 5524-5536.	3.7	87
10	Polymorphism and devitrification of nifedipine under controlled humidity: a combined FT-Raman, IR and Raman microscopic investigation. Journal of Raman Spectroscopy, 2004, 35, 353-359.	2.5	84
11	On the structure of palygorskite by mid- and near-infrared spectroscopy. American Mineralogist, 2006, 91, 1125-1133.	1.9	84
12	X-ray diffraction and infrared investigation of $\text{RBa}_2\text{Cu}_3\text{O}_7$ and $\text{R}_{0.5}\text{Pr}_{0.5}\text{Ba}_2\text{Cu}_3\text{O}_7$ compounds ($\text{R}=\text{Y}$ and Tj). <i>Journal of Applied Physics</i> , 2000, 88, 833-838.	1.2	83
13	The devitrification of lithium metaborate: polymorphism and glass formation. Journal of Non-Crystalline Solids, 1990, 126, 42-51.	3.1	82
14	A vibrational study of lithium sulfate based fast ionic conducting borate glasses. The Journal of Physical Chemistry, 1986, 90, 4528-4533.	2.9	81
15	Alkali sites in glass. Solid State Ionics, 1998, 105, 75-85.	2.7	77
16	Vibrational spectra of magnesium-sodium-borate glasses. 1. Far-infrared investigation of the cation-site interactions. The Journal of Physical Chemistry, 1987, 91, 1067-1073.	2.9	73
17	Vibrational investigation of lithium metaborate-metaaluminates glasses and crystals. Journal of Non-Crystalline Solids, 1997, 217, 278-290.	3.1	69
18	Octahedral cation distribution in palygorskite. American Mineralogist, 2009, 94, 200-203.	1.9	65

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19	Structure of fast-ion-conducting AgI-doped borate glasses in bulk and thin film forms. <i>Physical Review B</i> , 1999, 60, 3885-3898.	3.2	60
20	Lithium borate glasses: a quantitative study of strength and fragility. <i>Journal of Non-Crystalline Solids</i> , 1994, 172-174, 378-383.	3.1	58
21	Revisiting the Infrared Spectrum of the Water-Smectite Interface. <i>Clays and Clay Minerals</i> , 2015, 63, 15-29.	1.3	56
22	Use of NIR for structural characterization of urea-formaldehyde resins. <i>International Journal of Adhesion and Adhesives</i> , 2003, 23, 473-484.	2.9	54
23	Secondary Structure of Chorion Proteins of the Teleostean Fish <i>Dentex dentex</i> by ATR FT-IR and FT-Raman Spectroscopy. <i>Journal of Structural Biology</i> , 2000, 132, 112-122.	2.8	53
24	Molecular interactions between dimethoxycurcumin and Pamam dendrimer carriers. <i>International Journal of Pharmaceutics</i> , 2007, 339, 231-236.	5.2	50
25	Bond length-Raman frequency correlations in borate crystals. <i>Journal of Raman Spectroscopy</i> , 1991, 22, 645-650.	2.5	49
26	Polarized Resonance Raman and FTIR Reflectance Spectroscopic Investigation of the Molecular Orientation in Industrial Poly(vinyl chloride) Specimens. <i>Macromolecules</i> , 2000, 33, 5613-5623.	4.8	49
27	Structure and Optical Conductivity of Silver Thiogermanate Glasses. <i>Journal of Solid State Chemistry</i> , 1994, 112, 255-261.	2.9	48
28	Soft-cuticle protein secondary structure as revealed by FT-Raman, ATR FT-IR and CD spectroscopy. <i>Insect Biochemistry and Molecular Biology</i> , 2001, 31, 877-885.	2.7	48
29	Combined Near-infrared and X-ray Diffraction Investigation of the Octahedral Sheet Composition of Palygorskite. <i>Clays and Clay Minerals</i> , 2007, 55, 543-553.	1.3	48
30	A Raman investigation of cadmium borate and borogermanate glasses. <i>Journal of Non-Crystalline Solids</i> , 1987, 93, 155-168.	3.1	46
31	Cation Mass Dependence of the Nearly Constant Dielectric Loss in Alkali Triborate Glasses. <i>Physical Review Letters</i> , 2002, 88, 125902.	7.8	46
32	Effect of Li ₂ SO ₄ on the structure of Li ₂ O-B ₂ O ₃ glasses. <i>Journal of Non-Crystalline Solids</i> , 1996, 202, 222-232.	3.1	45
33	Dielectric and structural investigation of alkali triborate glasses. <i>Journal of Non-Crystalline Solids</i> , 1998, 235-237, 761-765.	3.1	43
34	Metal ion sites in oxide glasses Relation to glass basicity and ion transport. <i>Journal of Non-Crystalline Solids</i> , 1996, 196, 249-254.	3.1	42
35	Use of FT-NIR spectroscopy for on-line monitoring of formaldehyde-based resin synthesis. <i>European Polymer Journal</i> , 2003, 39, 1533-1540.	5.4	39
36	Amyloid fibril formation propensity is inherent into the hexapeptide tandemly repeating sequence of the central domain of silkmoth chorion proteins of the A-family. <i>Journal of Structural Biology</i> , 2006, 156, 480-488.	2.8	39

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37	In situ high-throughput study of drug polymorphism under controlled temperature and humidity using FT-IR spectroscopic imaging. <i>Vibrational Spectroscopy</i> , 2007, 43, 221-226.	2.2	38
38	Complexation of Lysozyme with Poly(sodium(sulfamate-carboxylate)isoprene). <i>Biomacromolecules</i> , 2011, 12, 1697-1706.	5.4	38
39	An NMR study of the photoconducting glass systems CdO _i -B ₂ O ₃ -GeO ₂ and CdO _i -B ₂ O ₃ -SiO ₂ . <i>Journal of Non-Crystalline Solids</i> , 1986, 85, 69-78.	3.1	35
40	Vibrational investigation of indigo-palygorskite association(s) in synthetic Maya blue. <i>Journal of Materials Science</i> , 2012, 47, 3415-3428.	3.7	35
41	Synchronous ATR infrared and NIR-spectroscopy investigation of sepiolite upon drying. <i>Vibrational Spectroscopy</i> , 2013, 68, 51-60.	2.2	35
42	The Nature of Laponite: Pure Hectorite or a Mixture of Different Trioctahedral Phases?. <i>Minerals (Basel, Switzerland)</i> , 2018, 8, 314.	2.0	35
43	Lithium-sodium metaborate glasses: structural aspects and vitrification chemistry. <i>Journal of Non-Crystalline Solids</i> , 1994, 167, 92-105.	3.1	33
44	Structure and Dynamics of Water-Smectite Interfaces: Hydrogen Bonding and the Origin of the Sharp O-D _w /O ^H _w Infrared Band From Molecular Simulations. <i>Clays and Clay Minerals</i> , 2016, 64, 452-471.	1.3	32
45	A classification of metaborate crystals based on Raman spectroscopy. <i>Spectrochimica Acta Part A: Molecular Spectroscopy</i> , 1991, 47, 1117-1126.	0.1	31
46	Towards a structural interpretation of fragility and decoupling trends in borate systems. <i>Journal of Non-Crystalline Solids</i> , 1996, 196, 244-248.	3.1	31
47	Secondary structure of chorion proteins of the Lepidoptera <i>Pericallia ricini</i> and <i>Ariadne merione</i> by ATR FT-IR and micro-Raman spectroscopy. <i>International Journal of Biological Macromolecules</i> , 2011, 49, 317-322.	7.5	31
48	Amyloid-like fibrils from an 18-residue peptide analogue of a part of the central domain of the B-family of silkworm chorion proteins. <i>FEBS Letters</i> , 2001, 499, 268-273.	2.8	30
49	On the structure of alkali borate glasses approaching the orthoborate composition. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 1990, 7, 1-4.	3.5	29
50	Evidence from vibrational spectroscopy for cluster and tissue pseudophases in glass. <i>Journal of Non-Crystalline Solids</i> , 1991, 131-133, 1089-1091.	3.1	29
51	Basicity Variation in Network Oxides: Distribution of Metal Ion Sites in Borate Glass Systems. <i>Journal of Physical Chemistry B</i> , 1997, 101, 4188-4192.	2.6	27
52	Dielectric relaxation propylene glycol-water solutions from 10MHz to 10GHz. <i>Journal of Molecular Liquids</i> , 1989, 43, 53-69.	4.9	25
53	Lithium conducting borate glasses: evidence for two broad distributions of cation-hosting environments. <i>Journal of Non-Crystalline Solids</i> , 1991, 131-133, 1092-1095.	3.1	25
54	Trioctahedral entities in palygorskite: Near-infrared evidence for sepiolite-palygorskite polysomatism. <i>European Journal of Mineralogy</i> , 2011, 23, 567-576.	1.3	25

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55	Laser-Raman and FT-IR spectroscopic studies of peptide-analogues of silkmoth chorion protein segments. <i>International Journal of Biological Macromolecules</i> , 1998, 23, 49-59.	7.5	24
56	Spectroscopic investigation of AgI-doped borate glasses. <i>Solid State Ionics</i> , 2000, 136-137, 1031-1039.	2.7	24
57	New insights into the structure of alkali borate glasses. <i>Journal of Non-Crystalline Solids</i> , 1990, 123, 283-285.	3.1	23
58	Measuring the Layer Charge of Dioctahedral Smectite by O ¹⁸ D Vibrational Spectroscopy. <i>Clays and Clay Minerals</i> , 2015, 63, 443-456.	1.3	23
59	A comprehensive view of the local structure around Rb in rubidium germanate glasses. <i>Journal of Non-Crystalline Solids</i> , 1996, 203, 320-328.	3.1	22
60	Structural Characterization of Reduced-Charge Montmorillonites. Evidence Based on FTIR Spectroscopy, Thermal Behavior, and Layer-Charge Systematics. <i>Clays and Clay Minerals</i> , 2013, 61, 83-97.	1.3	22
61	Far-infrared spectra of binary alkali borate glasses. <i>Solid State Ionics</i> , 1988, 28-30, 687-692.	2.7	21
62	Laser-induced crystallization of glassy caesium metaborate studied by Raman spectroscopy. <i>Journal of Non-Crystalline Solids</i> , 1990, 116, 115-122.	3.1	19
63	The glass transition temperature of lithium-alkali borates. <i>Journal of Non-Crystalline Solids</i> , 1991, 134, 277-286.	3.1	16
64	Origin and properties of the nearly constant loss in crystalline and glassy ionic conductors. <i>Journal of Non-Crystalline Solids</i> , 2002, 307-310, 1024-1030.	3.1	16
65	Chemical relaxations at the glass transition of a lithium conducting glass. <i>Journal of Non-Crystalline Solids</i> , 1991, 131-133, 1068-1071.	3.1	15
66	Spectroscopic studies of <i>Manduca sexta</i> and <i>Sesamia nonagrioides</i> chorion protein structure. <i>International Journal of Biological Macromolecules</i> , 1995, 17, 93-98.	7.5	15
67	Near-infrared investigation of folding sepiolite. <i>American Mineralogist</i> , 2015, 100, 195-202.	1.9	14
68	Infrared study of cadmium borogermanate glasses. <i>Journal of Non-Crystalline Solids</i> , 1986, 85, 54-68.	3.1	13
69	Dogfish egg case structural studies by ATR FT-IR and FT-Raman spectroscopy. <i>International Journal of Biological Macromolecules</i> , 2007, 41, 102-108.	7.5	13
70	Crystal Structure and Vibrational Spectra of Li ₂ BAlO ₄ . <i>Journal of Solid State Chemistry</i> , 1999, 142, 214-219.	2.9	12
71	FT-Raman spectroscopy as diagnostic tool of Congo red binding to amyloids. <i>Biopolymers</i> , 2003, 72, 185-192.	2.4	12
72	Tracking the amyloidogenic core of IAPP amyloid fibrils: Insights from micro-Raman spectroscopy. <i>Journal of Structural Biology</i> , 2017, 199, 140-152.	2.8	9

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73	Non-contact detection of ciprofloxacin in a model anterior chamber using Raman spectroscopy. <i>Journal of Biomedical Optics</i> , 2007, 12, 034005.	2.6	8
74	Geochemical and mineralogical characterization of smectites from the Ventzia basin, western Macedonia, Greece. <i>Clay Minerals</i> , 2019, 54, 95-107.	0.6	8
75	Oxygen adsorption on silver in polyfluorocarbon sulfonic acid (Nafion) films. <i>Journal of Catalysis</i> , 1985, 93, 430-441.	6.2	7
76	A structural assessment of glass formation in alkali borates: Melt quenching versus gel drying. <i>Journal of Materials Science Letters</i> , 1995, 14, 268-270.	0.5	7
77	Smectite in bentonite: Near infrared systematics and estimation of layer charge. <i>Applied Clay Science</i> , 2018, 160, 81-87.	5.2	7
78	The charge of wettable illite-smectite surfaces measured with the O-D method. <i>Applied Clay Science</i> , 2018, 161, 354-363.	5.2	7
79	Far-infrared spectra of magnesium-sodium-borate glasses. <i>Solid State Communications</i> , 1986, 60, 885-888.	1.9	5
80	Time domain dielectric measurements of conducting glasses. <i>Journal of Chemical Physics</i> , 1986, 84, 6518-6519.	3.0	4
81	Synthesis and structural studies of novel cadmium germanate glasses. <i>Solid State Communications</i> , 1987, 63, 611-613.	1.9	4
82	Intercalation of N-methylformamide in kaolinite: In situ monitoring by near-infrared spectroscopy and X-ray diffraction. <i>Applied Clay Science</i> , 2021, 212, 106209.	5.2	4
83	Electrical conduction in cadmium germanate glasses. <i>Solid State Communications</i> , 1987, 63, 615-618.	1.9	3
84	Chemical relaxations of ionically conducting glasses. <i>Journal of Molecular Liquids</i> , 1993, 56, 349-357.	4.9	3
85	Modern Infrared and Raman Instrumentation and Sampling Methods. <i>Developments in Clay Science</i> , 2017, 8, 34-63.	0.5	3
86	Comment to the paper: Identification of indigoid compounds present in archaeological Maya blue by pyrolysis-silylation-gas chromatography-mass spectrometry (M.T. Domínguez-Carbón, L. Osete-Cortina, Tj ETQg 0 0 rgBT /Overloc	3.5	2
87	Time domain reflectometry study of fast-ionically conducting glasses. <i>Journal of Chemical Physics</i> , 1988, 89, 612-614.	3.0	1
88	Diblock copolymer adsorption from the aqueous micellar phase to solid surfaces: real time monitoring by ATR spectroscopy in the mid-infrared. <i>Macromolecular Symposia</i> , 2004, 205, 117-128.	0.7	1