

Francisco Colmenero Ruiz

List of Publications by Citations

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41
papers

997
citations

16
h-index

31
g-index

44
ext. papers

1,155
ext. citations

3.4
avg, IF

5.42
L-index

#	Paper	IF	Citations
41	Approximating q-order reduced density matrices in terms of the lower-order ones. II. Applications. <i>Physical Review A</i> , 1993 , 47, 979-985	2.6	181
40	Approximating q-order reduced density matrices in terms of the lower-order ones. I. General relations. <i>Physical Review A</i> , 1993 , 47, 971-978	2.6	132
39	Self-consistent approximate solution of the second-order contracted Schrödinger equation. <i>International Journal of Quantum Chemistry</i> , 1994 , 51, 369-388	2.1	108
38	Periodic Density Functional Theory Study of the Structure, Raman Spectrum, and Mechanical Properties of Schoepite Mineral. <i>Inorganic Chemistry</i> , 2018 , 57, 4470-4481	5.1	39
37	Thermodynamic and Mechanical Properties of the Rutherfordine Mineral Based on Density Functional Theory. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 5994-6001	3.8	36
36	Spectroscopic Raman characterization of rutherfordine: a combined DFT and experimental study. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 16575-84	3.6	36
35	Density Functional Theory Study of the Thermodynamic and Raman Vibrational Properties of UJO_3 Polymorph. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 14507-14516	3.8	35
34	Structural, mechanical and vibrational study of uranyl silicate mineral soddyite by DFT calculations. <i>Journal of Solid State Chemistry</i> , 2017 , 253, 249-257	3.3	34
33	Study of the thermal stability of studtite by in situ Raman spectroscopy and DFT calculations. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2017 , 174, 245-253	4.4	34
32	Mechanical properties of anhydrous oxalic acid and oxalic acid dihydrate. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 2673-2690	3.6	31
31	Becquerelite mineral phase: crystal structure and thermodynamic and mechanical stability by using periodic DFT.. <i>RSC Advances</i> , 2018 , 8, 24599-24616	3.7	28
30	Temperature-Dependent Gibbs Free Energies of Reaction of Uranyl-Containing Materials Based on Density Functional Theory. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 5268-5279	3.8	26
29	Thermodynamic Properties of Uranyl-Containing Materials Based on Density Functional Theory. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 5254-5267	3.8	26
28	Periodic DFT Study of the Thermodynamic Properties and Stability of Schoepite and Metaschoepite Mineral Phases. <i>ACS Earth and Space Chemistry</i> , 2019 , 3, 17-28	3.2	20
27	Anomalous mechanical behavior of the deltic, squaric and croconic cyclic oxocarbon acids. <i>Materials Research Express</i> , 2019 , 6, 045610	1.7	18
26	Crystal structure, hydrogen bonding, mechanical properties and Raman spectrum of the lead uranyl silicate monohydrate mineral kasolite.. <i>RSC Advances</i> , 2019 , 9, 15323-15334	3.7	17
25	Structural, mechanical and Raman spectroscopic characterization of the layered uranyl silicate mineral, uranophane- β by density functional theory methods. <i>Clay Minerals</i> , 2018 , 53, 377-392	1.3	16

24	Negative area compressibility in oxalic acid dihydrate. <i>Materials Letters</i> , 2019 , 245, 25-28	3.3	15
23	The layered uranyl silicate mineral uranophane- β crystal structure, mechanical properties, Raman spectrum and comparison with the β polymorph. <i>Dalton Transactions</i> , 2019 , 48, 16722-16736	4.3	14
22	Revealing Rutherfordine Mineral as an Auxetic Material. <i>Applied Sciences (Switzerland)</i> , 2018 , 8, 2281	2.6	14
21	Silver Oxalate: Mechanical Properties and Extreme Negative Mechanical Phenomena. <i>Advanced Theory and Simulations</i> , 2019 , 2, 1900040	3.5	13
20	Structural, spectroscopic, and thermodynamic characterization of ammonium oxalate monohydrate mineral using theoretical solid-state methods. <i>Journal of Physics and Chemistry of Solids</i> , 2019 , 125, 31-42	3.9	13
19	Extreme negative mechanical phenomena in the zinc and cadmium anhydrous metal oxalates and lead oxalate dihydrate. <i>Journal of Materials Science</i> , 2020 , 55, 218-236	4.3	13
18	Study of the structural, vibrational and thermodynamic properties of natroxalate mineral using density functional theory. <i>Journal of Solid State Chemistry</i> , 2018 , 263, 131-140	3.3	12
17	Thermodynamic, Raman Spectroscopic, and UV-Visible Optical Characterization of the Deltic, Squaric, and Croconic Cyclic Oxocarbon Acids. <i>Journal of Physical Chemistry A</i> , 2019 , 123, 4241-4261	2.8	9
16	Periodic density functional theory study of the Raman spectrum of the hydrated uranyl oxyhydroxide mineral becquerelite. <i>Theoretical Chemistry Accounts</i> , 2019 , 138, 1	1.9	9
15	Organic acids under pressure: elastic properties, negative mechanical phenomena and pressure induced phase transitions in the lactic, maleic, succinic and citric acids. <i>Materials Advances</i> , 2020 , 1, 1399-1426	3.3	9
14	Negative linear compressibility in uranyl squarate monohydrate. <i>Journal of Physics Condensed Matter</i> , 2019 , 31, 175701	1.8	8
13	Crystal Structure, Infrared Spectrum and Elastic Anomalies in Tuperssuatsiaite. <i>Scientific Reports</i> , 2020 , 10, 7510	4.9	7
12	Structural, mechanical, spectroscopic and thermodynamic characterization of the copper-uranyl tetrahydroxide mineral vandenbrandeite.. <i>RSC Advances</i> , 2019 , 9, 40708-40726	3.7	7
11	Addendum: anomalous mechanical behavior of the deltic, squaric and croconic cyclic oxocarbon acids. <i>Materials Research Express</i> , 2019 , 6, 069401	1.7	6
10	Uranosphaerite: Crystal structure, hydrogen bonding, mechanics, infrared and Raman spectroscopy and thermodynamics. <i>Journal of Physics and Chemistry of Solids</i> , 2020 , 141, 109400	3.9	6
9	Full crystal structure, hydrogen bonding and spectroscopic, mechanical and thermodynamic properties of mineral uranopilite.. <i>RSC Advances</i> , 2020 , 10, 31947-31960	3.7	6
8	The magnesium uranyl tricarbonat octadecahydrate mineral, bayleyite: Periodic DFT study of its crystal structure, hydrogen bonding, mechanical properties and infrared spectrum. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2020 , 234, 118216	4.4	5
7	Thermodynamic properties of the uranyl carbonate minerals roubaultite, fontanite, widenmannite, grimselite, Bjkaite and bayleyite. <i>Inorganic Chemistry Frontiers</i> , 2020 , 7, 4160-4179	6.8	5

6	The crystal structures and mechanical properties of the uranyl carbonate minerals roubaultite, fontanite, sharpite, widenmannite, grimselite and Bjkaite. <i>Inorganic Chemistry Frontiers</i> , 2020 , 7, 4197-4221	6.8	4
5	Negative area compressibility in silver oxalate. <i>Journal of Materials Science</i> , 2021 , 56, 269-277	4.3	3
4	Negative linear compressibility in nanoporous metal-organic frameworks rationalized by the empty channel structural mechanism. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 8508-8524	3.6	2
3	Mechanical anomalies in mercury oxalate and the deformation of the mercury cube coordination environment under pressure. <i>Applied Physics A: Materials Science and Processing</i> , 2021 , 127, 1	2.6	0
2	Fluorine-substituted cyclobutenes in the solid state: Crystal structures, vibrational spectra and mechanical and thermodynamic properties. <i>Journal of Physics and Chemistry of Solids</i> , 2022 , 160, 110337 ^{3·9}	3.9	0
1	Graphical method for operating in second quantization. <i>Physical Review A</i> , 1994 , 49, 4217-4220	2.6	