

Francisco Colmenero Ruiz

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/8817148/francisco-colmenero-ruiz-publications-by-year.pdf>

Version: 2024-04-26

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

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	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}		0
40	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
39	Negative area compressibility in silver oxalate. <i>Journal of Materials Science</i> , 2021 , 56, 269-277	4.3	3
38	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
37	The magnesium uranyl tricarbonate 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
36	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
35	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
34	Crystal Structure, Infrared Spectrum and Elastic Anomalies in Tuperessuatsiaite. <i>Scientific Reports</i> , 2020 , 10, 7510	4.9	7
33	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 ^{3.2}		9
32	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
31	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
30	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
29	Mechanical properties of anhydrous oxalic acid and oxalic acid dihydrate. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 2673-2690	3.6	31
28	Negative linear compressibility in uranyl squarate monohydrate. <i>Journal of Physics Condensed Matter</i> , 2019 , 31, 175701	1.8	8
27	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
26	Silver Oxalate: Mechanical Properties and Extreme Negative Mechanical Phenomena. <i>Advanced Theory and Simulations</i> , 2019 , 2, 1900040	3.5	13
25	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

24	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
23	Addendum: anomalous mechanical behavior of the deltic, squaric and croconic cyclic oxocarbon acids. <i>Materials Research Express</i> , 2019 , 6, 069401	1.7	6
22	Negative area compressibility in oxalic acid dihydrate. <i>Materials Letters</i> , 2019 , 245, 25-28	3.3	15
21	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
20	Structural, mechanical, spectroscopic and thermodynamic characterization of the copper-uranyl tetrahydroxide mineral vandenbrandeite.. <i>RSC Advances</i> , 2019 , 9, 40708-40726	3.7	7
19	Anomalous mechanical behavior of the deltic, squaric and croconic cyclic oxocarbon acids. <i>Materials Research Express</i> , 2019 , 6, 045610	1.7	18
18	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
17	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
16	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
15	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
14	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
13	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
12	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
11	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
10	Revealing Rutherfordine Mineral as an Auxetic Material. <i>Applied Sciences (Switzerland)</i> , 2018 , 8, 2281	2.6	14
9	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
8	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
7	Density Functional Theory Study of the Thermodynamic and Raman Vibrational Properties of β -UO ₃ Polymorph. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 14507-14516	3.8	35

6	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
5	Spectroscopic Raman characterization of rutherfordine: a combined DFT and experimental study. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 16575-84	3.6	36
4	Graphical method for operating in second quantization. <i>Physical Review A</i> , 1994 , 49, 4217-4220	2.6	
3	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
2	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
1	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