Mercedes SuÃ¡rez

List of Publications by Year
in descending order

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53	1,833	304743	265206
papers	citations	22 h-index	42 g-index

53	53	53	1437
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	FTIR spectroscopic study of palygorskite: Influence of the composition of the octahedral sheet. Applied Clay Science, 2006, 31, 154-163.	5.2	234
2	Comparative FT-IR study of the removal of octahedral cations and structural modifications during acid treatment of several silicates. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 1996, 52, 1685-1694.	3.9	164
3	Variability of the surface properties of sepiolite. Applied Clay Science, 2012, 67-68, 72-82.	5.2	120
4	On the Chemical Composition of Sepiolite and Palygorskite. Clays and Clay Minerals, 2010, 58, 1-20.	1.3	112
5	SYNTHESIS AND ACID RESISTANCE OF MAYA BLUE PIGMENT*. Archaeometry, 2006, 48, 115-130.	1.3	102
6	Sepioliteâ€“palygorskite: Textural study and genetic considerations. Applied Clay Science, 2013, 86, 129-144.	5.2	98
7	Characterization, Surface Area, and Porosity Analyses of the Solids Obtained by Acid Leaching of a Saponite. Langmuir, 1996, 12, 566-572.	3.5	87
8	A combined synchrotron powder diffraction and vibrational study of the thermal treatment of palygorskiteâ€“indigo to produce Maya blue. Journal of Materials Science, 2009, 44, 5524-5536.	3.7	87
9	Octahedral cation distribution in palygorskite. American Mineralogist, 2009, 94, 200-203.	1.9	65
10	Advances in the Crystal Chemistry of Sepiolite and Palygorskite. Developments in Clay Science, 2011, , 33-65.	0.5	50
11	The effect of the octahedral cations on the dimensions of the palygorskite cell. Clay Minerals, 2007, 42, 287-297.	0.6	49
12	Variability in sepiolite: Diffraction studies. American Mineralogist, 2011, 96, 1443-1454.	1.9	48
13	Crystallochemical Characterization of the Palygorskite and Sepiolite from the Allou Kagne Deposit, Senegal. Clays and Clay Minerals, 2007, 55, 606-617.	1.3	45
14	Synchronous onset of the Messinian evaporite precipitation: First Mediterranean offshore evidence. Earth and Planetary Science Letters, 2015, 427, 112-124.	4.4	44
15	Ni-sepiolite-falcondoite in garnierite mineralization from the Falcondo Ni-laterite deposit, Dominican Republic. Clay Minerals, 2009, 44, 435-454.	0.6	42
16	Evidence of a Precursor in the Neoformation of Palygorskite â€" New Data by Analytical Electron Microscopy. Clay Minerals, 1994, 29, 255-264.	0.6	39
17	Sepioliteâ€“Palygorskite: A Continuous Polysomatic Series. Clays and Clay Minerals, 2013, 61, 461-472.	1.3	37
18	Mineralogical characterisation and surface properties of sepiolite from Polatli (Turkey). Applied Clay Science, 2016, 131, 124-130.	5.2	33

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19	Sepiolite-palygorskite polysomatic series: Oriented aggregation as a crystal growth mechanism in natural environments. American Mineralogist, 2014, 99, 1653-1661.	1.9	32
20	Mg K-edge XANES of sepiolite and palygorskite. Nuclear Instruments & Methods in Physics Research B, 2005, 238, 55-60.	1.4	30
21	The Maya Blue Pigment. Developments in Clay Science, 2011, 3, 453-481.	0.5	29
22	Review and new data on the surface properties of palygorskite: A comparative study. Applied Clay Science, 2022, 216, 106311.	5.2	26
23	Trioctahedral entities in palygorskite: Near-infrared evidence for sepiolite-palygorskite polysomatism. European Journal of Mineralogy, 2011, 23, 567-576.	1.3	25
24	Pillaring of a High Iron Content Saponite with Aluminum Polycations:Â Surface and Catalytic Properties. Langmuir, 1996, 12, 5143-5147.	3.5	21
25	THE OCCURRENCE OF PALYGORSKITE IN THE YUCATÃN PENINSULA: ETHNOâ€HISTORIC AND ARCHAEOLOGICAL CONTEXTS*. Archaeometry, 2009, 51, 214-230.	1.3	21
26	Spanish Bentonites: A Review and New Data on Their Geology, Mineralogy, and Crystal Chemistry. Minerals (Basel, Switzerland), 2019, 9, 696.	2.0	17
27	Macroscopic palygorskite from Lisbom Volcanic Complex. European Journal of Mineralogy, 2006, 18, 119-126.	1.3	16
28	On the structural formula of smectites: a review and new data on the influence of exchangeable cations. Journal of Applied Crystallography, 2021, 54, 251-262.	4.5	16
29	Fault-hosted palygorskite from the Serrata de NÃjar deformation zone (Se Spain). Clays and Clay Minerals, 2006, 54, 324-332.	1.3	15
30	An insight in the structure of a palygorskite from Palygorskaja: Some questions on the standard model. Applied Clay Science, 2017, 148, 39-47.	5.2	14
31	Role of water on formation and structural features of Maya blue. Journal of Physics: Conference Series, 2012, 340, 012109.	0.4	13
32	Shallow foundations on expansive soils: a case study of the El Viso Geotechnical Unit, Salamanca, Spain. Bulletin of Engineering Geology and the Environment, 2012, 71, 51-59.	3.5	12
33	A structure-based argument for non-classical crystal growth in natural clay minerals. Mineralogical Magazine, 2018, 82, 171-180.	1.4	12
34	Spanish palygorskites: geological setting, mineralogical, textural and crystal-chemical characterization. European Journal of Mineralogy, 2018, 30, 733-746.	1.3	11
35	Characterization of the Solids Obtained by Pillaring of Griffithite (High Iron Content Saponite) with Al-Oligomers. Clays and Clay Minerals, 1997, 45, 761-768.	1.3	10
36	Mineralogical data for palygorskite from Bercimuel (Segovia, Spain). Clay Minerals, 1995, 30, 261-266.	0.6	9

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37	The role of sepiolite and palygorskite on the migration of leukocyte cells to an inflammation site. Applied Clay Science, 2016, 123, 315-319.	5.2	7
38	Sepiolite and palygorskite-underpinned regulation of mRNA expression of pro-inflammatory cytokines as determined by a murine inflammation model. Applied Clay Science, 2017, 137, 43-49.	5.2	6
39	Geochemistry and Biomarker Analysis of the Bentonites from Esquivias (Toledo, Spain). Minerals (Basel, Switzerland), 2018, 8, 291.	2.0	5
40	A micromorphological study on natural and folded sepiolite. European Journal of Mineralogy, 2015, 27, 81-90.	1.3	4
41	Identification and classification of mineralogical associations by VNIR-SWIR spectroscopy in the Tajo basin (Spain). International Journal of Applied Earth Observation and Geoinformation, 2018, 72, 57-65.	2.8	4
42	An arid phase in the Internal Dinarides during the early to middle Miocene: Inferences from Mg-clays in the Pranjani Basin (Serbia). Palaeogeography, Palaeoclimatology, Palaeoecology, 2021, 562, 110145.	2.3	4
43	Reduction of Fe(III) in a high-iron saponite. Pillaring of the reduced samples with Al13 oligomers. Clay Minerals, 1998, 33, 213-220.	0.6	3
44	Presence of oriented fibers in palygorskite powders and its influence on X-Ray diffractograms. Applied Clay Science, 2020, 195, 105724.	5.2	3
45	The alteration of Miraflores Basalt (Panama): Mineralogical and textural evolution. Applied Clay Science, 2021, 205, 106036.	5.2	3
46	Mineral climate indicators in paleoflooded and emerged areas around lake marshes (Tablas de Daimiel,) Tj ETQq0 0 0 rgBT /Overlock 10 T 26, 4565-4582.	2.9	2
47	Comments on â€œInfluence of thermally modified palygorskite on the viability of polycyclic aromatic hydrocarbon-degrading bacteriaâ€•by B. Biswas, B. Sarkar, and R. Naidy Applied Clay Science 134 (2016) 153â€“160, DOI 10.1016/j.clay.2016.07.003. Applied Clay Science, 2019, 175, 197-198.	5.2	2
48	New data on the microporosity of bentonites. Engineering Geology, 2022, 296, 106439.	6.3	2
49	HRTEM evidences of Tajo Basin mineralogical complexity: Crystal chemistry and genetic relationship. Applied Clay Science, 2022, 224, 106515.	5.2	2
50	Structure and Mechanical Properties of the DueÃ±as Clay Formation (Tertiary Duero Basin, Spain): An Overconsolidated Clay of Lacustrine Origin. Applied Sciences (Switzerland), 2021, 11, 12021.	2.5	1
51	Crystalâ€“chemical and diffraction analyses of Maya blue suggesting a different provenance of the palygorskite found in Aztec pigments*. Archaeometry, 2021, 63, 738-752.	1.3	0
52	Field Spectroscopy Applied to the Kaolinite Polytypes Identification. Environmental Sciences Proceedings, 2021, 6, 16.	0.3	0
53	CaracterizaciÃ³n de minerales de arcilla y Ã³xidos de hierro mediante espectroscopÃa de reflectancia difusa (VNIRâ€“SWIR). Revista De Teledeteccion, 2020, , 49.	0.6	0