

# Serena Chiara Tarantino

## List of Publications by Year in descending order

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44  
papers

689  
citations

623734

14  
h-index

580821

25  
g-index

45  
all docs

45  
docs citations

45  
times ranked

1013  
citing authors

#	ARTICLE	IF	CITATIONS
1	Thermal dehydroxylation of kaolinite under isothermal conditions. <i>Applied Clay Science</i> , 2013, 80-81, 417-425.	5.2	109
2	Dehydroxylation, proton migration, and structural changes in heated talc: An infrared spectroscopic study. <i>American Mineralogist</i> , 2006, 91, 816-825.	1.9	57
3	Metakaolin as a precursor of materials for applications in Cultural Heritage: Geopolymer-based mortars with ornamental stone aggregates. <i>Applied Clay Science</i> , 2016, 132-133, 589-599.	5.2	42
4	Removal of fluoroquinolone contaminants from environmental waters on sepiolite and its photo-induced regeneration. <i>Chemosphere</i> , 2016, 150, 686-693.	8.2	40
5	Reuse of waste sandstone sludge via alkali activation in matrices of fly ash and metakaolin. <i>Construction and Building Materials</i> , 2018, 172, 212-223.	7.2	38
6	The crystal chemistry of Fe-bearing sphalerites: An infrared spectroscopic study. <i>American Mineralogist</i> , 2008, 93, 591-597.	1.9	31
7	Mixing properties of the enstatite-ferrosilite solid solution: II. A microscopic perspective. <i>European Journal of Mineralogy</i> , 2002, 14, 537-547.	1.3	28
8	Hydration/Dehydration and Cation Migration Processes at High Temperature in Zeolite Chabazite. <i>Chemistry of Materials</i> , 2008, 20, 5876-5887.	6.7	23
9	Strain and local heterogeneity in the forsterite-fayalite solid solution. <i>Physics and Chemistry of Minerals</i> , 2003, 30, 495-502.	0.8	22
10	Composition-induced structural phase transitions in the $(\text{Ba}_{1-x}\text{La}_x)_2\text{In}_2\text{O}_5+x$ ( $0 \leq x \leq 0.6$ ) system. <i>Journal of Solid State Chemistry</i> , 2005, 178, 882-891.	2.9	21
11	Cooperative Jahn-Teller effect and the role of strain in the tetragonal-to-cubic phase transition in $\text{Mg}_{1-x}\text{Cu}_x\text{Cr}_2\text{O}_4$ . <i>IUCr</i> , 2016, 3, 354-366.	2.2	19
12	Mixing properties of the enstatite-ferrosilite solid solution: I. A macroscopic perspective. <i>European Journal of Mineralogy</i> , 2002, 14, 525-536.	1.3	17
13	Geopolymers from low-T activated kaolin: Implications for the use of alunite-bearing raw materials. <i>Applied Clay Science</i> , 2015, 114, 530-539.	5.2	17
14	Ca in orthopyroxene: structural variations and kinetics of the disordering process. <i>European Journal of Mineralogy</i> , 2003, 15, 373-380.	1.3	15
15	High-temperature X-ray investigation of natural columbites. <i>Physics and Chemistry of Minerals</i> , 2003, 30, 590-598.	0.8	14
16	Mixing and ordering behavior in manganocolumbite-ferrocolumbite solid solution: A single-crystal X-ray diffraction study. <i>American Mineralogist</i> , 2005, 90, 1291-1300.	1.9	14
17	Does Thermosalient Effect Have to Concur with a Polymorphic Phase Transition? The Case of Methscopolamine Bromide. <i>Crystals</i> , 2018, 8, 301.	2.2	13
18	$\mu$ -XANES mapping of buried interfaces: pushing microbeam techniques to the nanoscale. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 5547.	2.8	12

#	ARTICLE	IF	CITATIONS
19	Local structural properties of (Mn,Fe)Nb <sub>2</sub> O <sub>6</sub> from Mössbauer and X-ray absorption spectroscopy. Acta Crystallographica Section B: Structural Science, 2005, 61, 250-257.	1.8	11
20	Crystal structure of columbite under high pressure. Physics and Chemistry of Minerals, 2010, 37, 769-778.	0.8	11
21	Thermal expansion of alunite up to dehydroxylation and collapse of the crystal structure. Mineralogical Magazine, 2012, 76, 613-623.	1.4	11
22	Sulfate-bearing clay and Pietra Serena sludge: Raw materials for the development of alkali activated binders. Construction and Building Materials, 2021, 301, 124030.	7.2	11
23	Structural properties of (Mn <sub>1-x</sub> Fe <sub>x</sub> )Nb <sub>2</sub> O <sub>6</sub> columbites from X-ray diffraction and IR spectroscopy. Physics and Chemistry of Minerals, 2005, 32, 568-577.	0.8	10
24	Characterization of XVIIIth century earthen mortars from Cremona (Northern Italy): Insights on a manufacturing tradition. Materials Characterization, 2015, 103, 81-89.	4.4	10
25	Role of Interfacial Energy and Crystallographic Orientation on the Mechanism of the ZnO + Al <sub>2</sub> O <sub>3</sub> + ZnAl <sub>2</sub> O <sub>4</sub> Solid-State Reaction: I. Reactivity of Films Deposited onto the Sapphire (110) and (012) Faces. Journal of Physical Chemistry C, 2013, 117, 6105-6112.	3.1	9
26	Mechanisms of Reactions in the Solid State: (110) Al <sub>2</sub> O <sub>3</sub> + (001) ZnO Interfacial Reaction. Journal of Physical Chemistry C, 2012, 116, 980-986.	3.1	8
27	Role of Interfacial Energy and Crystallographic Orientation on the Mechanism of the ZnO + Al <sub>2</sub> O <sub>3</sub> + ZnAl <sub>2</sub> O <sub>4</sub> Solid-State Reaction: II. Reactivity of Films Deposited onto the Sapphire (001) Face. Journal of Physical Chemistry C, 2013, 117, 6113-6119.	3.1	8
28	Optical phonons, OH vibrations, and structural modifications of phlogopite at high temperatures: An in-situ infrared spectroscopic study. American Mineralogist, 2016, 101, 1873-1883.	1.9	8
29	Thermal behaviour of libethenite from room temperature up to dehydration. Mineralogical Magazine, 2010, 74, 553-565.	1.4	7
30	The low-temperature magnetic signature of Fe-rich serpentine in CM2 chondrites: Comparison with terrestrial cronstedtite and evolution with the degree of alteration. Geochemistry, Geophysics, Geosystems, 2012, 13, .	2.5	7
31	Structural changes induced by cation ordering in ferrotapiolite. Mineralogical Magazine, 2006, 70, 319-328.	1.4	6
32	Low-alkali metal content in $\hat{I}^2$ -vanadium mixed bronzes: The crystal structures of $\hat{I}^2$ -Kx(V,Mo)6O15 (x=0.23) Tj ETQq0,0 0 rgBT /Overlock	2.9	6
33	Catalyst-free [2+2] photocycloadditions between benzils and olefins under visible light. Photochemical and Photobiological Sciences, 2022, 21, 695-703.	2.9	6
34	Monoclinic-to-orthorhombic phase transition in Cu <sub>2</sub> (AsO <sub>4</sub> )(OH) olivenite at high temperature: strain and mode decomposition analyses. Mineralogical Magazine, 2018, 82, 347-365.	1.4	5
35	Synchrotron radiation in solid state chemistry. Radiation Physics and Chemistry, 2011, 80, 1109-1111.	2.8	4
36	Growth and characterization of high quality LuVO <sub>3</sub> single crystals. Journal of Crystal Growth, 2012, 351, 118-121.	1.5	4

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37	Crystal structure of adamite at high temperature. Mineralogical Magazine, 2016, 80, 901-914.	1.4	4
38	High temperature structural behaviour of Li <sub>2</sub> VOSiO <sub>4</sub> . Zeitschrift für Kristallographie, 2007, 222, .	1.1	3
39	Chromatic Alteration of Roman Heritage in Aosta (Italy). Procedia Chemistry, 2013, 8, 78-82.	0.7	3
40	Earthen mortars from Cremona (Northern Italy): The evolution throughout centuries of a manufacturing tradition. Construction and Building Materials, 2016, 125, 520-532.	7.2	3
41	Rhombic-shaped nanodomains in columbite driven by contrasting cation order. American Mineralogist, 2011, 96, 374-382.	1.9	1
42	Crystal structure refinement of duftite, PbCu(AsO <sub>4</sub> )(OH), from Grube Clara, Oberwolfach, Schwarzwald, Germany. Neues Jahrbuch Fur Mineralogie, Abhandlungen, 2017, 194, 157-164.	0.3	1
43	Room-temperature equation of state of Li <sub>2</sub> VOSiO <sub>4</sub> up to 8.5 ÅGPa. Physics and Chemistry of Minerals, 2008, 35, 71-76.	0.8	0
44	The crystal structure of hanksite, Na <sub>22</sub> K(CO <sub>3</sub> ) <sub>2</sub> (SO <sub>4</sub> ) <sub>9</sub> Cl, refined from high-resolution X-ray diffraction data. Neues Jahrbuch Fur Mineralogie, Abhandlungen, 2018, 195, 115-122.	0.3	0