

# Giovanni B Andreozzi

## List of Publications by Year in descending order

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61  
papers

2,042  
citations

218677

26  
h-index

254184

43  
g-index

61  
all docs

61  
docs citations

61  
times ranked

1768  
citing authors

| #  | ARTICLE   | IF   | CITATIONS |
|----|---|------|-----------|
| 1  | Raman fingerprint of chromate, aluminate and ferrite spinels. <i>Journal of Raman Spectroscopy</i> , 2015, 46, 1255-1264.   | 2.5  | 280       |
| 2  | Cation ordering and structural variations with temperature in MgAl <sub>2</sub> O <sub>4</sub> spinel: An X-ray single-crystal study. <i>American Mineralogist</i> , 2000, 85, 1164-1171.   | 1.9  | 137       |
| 3  | Influence of cation distribution on the optical absorption spectra of Fe <sup>3+</sup> -bearing spinel s.s. -hercynite crystals: evidence for electron transitions in VI Fe <sup>2+</sup> - VI Fe <sup>3+</sup> clusters. <i>Physics and Chemistry of Minerals</i> , 2002, 29, 319-330. | 0.8  | 59        |
| 4  | Crystal chemistry of the elbaite-schorl series. <i>American Mineralogist</i> , 2005, 90, 1784-1792.   | 1.9  | 59        |
| 5  | Linking Mossbauer and structural parameters in elbaite-schorl-dravite tourmalines. <i>American Mineralogist</i> , 2008, 93, 658-666.  | 1.9  | 54        |
| 6  | Ni-free, black ceramic pigments based on Co <sup>2+</sup> Cr <sup>3+</sup> Fe <sup>3+</sup> Mn spinels: A reappraisal of crystal structure, colour and technological behaviour. <i>Ceramics International</i> , 2013, 39, 9533-9547.  | 4.8  | 54        |
| 7  | Structural relaxation around Cr <sup>3+</sup> and the red-green color change in the spinel (sensu stricto) solid-solution series. <i>American Mineralogist</i> , 2010, 95, 456-462.   | 1.9  | 53        |
| 8  | Combined use of X-ray photoelectron and Mössbauer spectroscopic techniques in the analytical characterization of iron oxidation state in amphibole asbestos. <i>Analytical and Bioanalytical Chemistry</i> , 2010, 396, 2889-2898.  | 3.7  | 50        |
| 9  | A Mössbauer and structural investigation of Fe-ZSM-5 catalysts: Influence of Fe oxide nanoparticles size on the catalytic behaviour for the NO-SCR by C <sub>3</sub> H <sub>8</sub> . <i>Applied Catalysis B: Environmental</i> , 2011, 102, 215-223.                                   | 20.2 | 50        |
| 10 | Crystal structure and iron topochemistry of erionite-K from Rome, Oregon, U.S.A.. <i>American Mineralogist</i> , 2009, 94, 1262-1270.   | 1.9  | 49        |
| 11 | Kinetics of cation ordering in synthetic MgAl <sub>2</sub> O <sub>4</sub> spinel. <i>American Mineralogist</i> , 2002, 87, 838-844.   | 1.9  | 46        |
| 12 | Behavior of cation vacancy in kenotetrahedral Cr-spinels from Albanian eastern belt ophiolites. <i>American Mineralogist</i> , 2004, 89, 1367-1373.   | 1.9  | 45        |
| 13 | The chemical environment of iron in mineral fibres. A combined X-ray absorption and Mössbauer spectroscopic study. <i>Journal of Hazardous Materials</i> , 2015, 298, 282-293.  | 12.4 | 44        |
| 14 | Fe <sup>2+</sup> and Fe <sup>3+</sup> quantification by different approaches and fO <sub>2</sub> estimation for Albanian Cr-spinels. <i>American Mineralogist</i> , 2006, 91, 907-916.  | 1.9  | 43        |
| 15 | Structural refinement and crystal chemistry of Mn-doped spinel: A case for tetrahedrally coordinated Mn <sup>3+</sup> in an oxygen-based structure. <i>American Mineralogist</i> , 2007, 92, 27-33.   | 1.9  | 42        |
| 16 | N <sub>2</sub> O decomposition over [Fe]-MFI catalysts: Influence of the Fe O nuclearity and the presence of framework aluminum on the catalytic activity. <i>Journal of Catalysis</i> , 2014, 318, 1-13.   | 6.2  | 40        |
| 17 | Intersite distribution of Fe <sup>2+</sup> and Mg in the spinel (sensu stricto) hercynite series by single-crystal X-ray diffraction. <i>American Mineralogist</i> , 2002, 87, 1113-1120.   | 1.9  | 39        |
| 18 | Spectroscopic active IV Fe <sup>3+</sup> - VI Fe <sup>3+</sup> clusters in spinel-magnesioferrite solid solution crystals: a potential monitor for ordering in oxide spinels. <i>Physics and Chemistry of Minerals</i> , 2001, 28, 435-444.   | 0.8  | 36        |

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|----|--|------|-----------|
| 19 | Blue spinel crystals in the MgAl <sub>2</sub> O <sub>4</sub> -CoAl <sub>2</sub> O <sub>4</sub> series: Part II. Cation ordering over short-range and long-range scales. <i>American Mineralogist</i> , 2012, 97, 1834-1840.                | 1.9  | 35        |
| 20 | Compositional dependence of cation distribution in some synthetic (Mg,Zn)(Al,Fe <sup>3+</sup> ) <sub>2</sub> O <sub>4</sub> spinels. <i>European Journal of Mineralogy</i> , 2001, 13, 391-402.  | 1.3  | 33        |
| 21 | Experimental evidence for partial Fe <sup>2+</sup> disorder at the <i>Y</i> and <i>Z</i> sites of tourmaline: a combined EMP, SREF, MS, IR and OAS study of schorl. <i>Mineralogical Magazine</i> , 2015, 79, 515-528.                     | 1.4  | 31        |
| 22 | Spectroscopic study of the product of thermal transformation of chrysotile-asbestos containing materials (ACM). <i>European Journal of Mineralogy</i> , 2010, 22, 535-546.   | 1.3  | 30        |
| 23 | Iron from a geochemical viewpoint. Understanding toxicity/pathogenicity mechanisms in iron-bearing minerals with a special attention to mineral fibers. <i>Free Radical Biology and Medicine</i> , 2019, 133, 21-37.                       | 2.9  | 30        |
| 24 | Fe <sup>2+</sup> /Zn manganite spinels and their carbonate precursors: preparation, characterization and catalytic activity. <i>Applied Catalysis B: Environmental</i> , 2005, 57, 153-165.  | 20.2 | 28        |
| 25 | Crystallographic and spectroscopic characterization of a natural Zn-rich spinel approaching the endmember gahnite (ZnAl <sub>2</sub> O <sub>4</sub> ) composition. <i>Mineralogical Magazine</i> , 2013, 77, 2941-2953.                    | 1.4  | 28        |
| 26 | The elasticity of MgAl <sub>2</sub> O <sub>4</sub> -MnAl <sub>2</sub> O <sub>4</sub> spinels by Brillouin scattering and an empirical approach for bulk modulus prediction. <i>American Mineralogist</i> , 2015, 100, 644-651.             | 1.9  | 28        |
| 27 | Zn-O tetrahedral bond length variations in normal spinel oxides. <i>American Mineralogist</i> , 2011, 96, 594-598.   | 1.9  | 27        |
| 28 | Surface reactivity of amphibole asbestos: a comparison between crocidolite and tremolite. <i>Scientific Reports</i> , 2017, 7, 14696.  | 3.3  | 27        |
| 29 | Short-range order of Fe <sup>2+</sup> in sphalerite by <sup>57</sup> Fe Mössbauer spectroscopy and magnetic susceptibility. <i>Physics and Chemistry of Minerals</i> , 2005, 32, 339-348.  | 0.8  | 26        |
| 30 | Redox state of subcontinental lithospheric mantle and relationships with metasomatism: insights from spinel peridotites from northern Victoria Land (Antarctica). <i>Contributions To Mineralogy and Petrology</i> , 2012, 164, 1053-1067. | 3.1  | 26        |
| 31 | Thermodynamics and kinetics of cation ordering in natural and synthetic Mg(Al,Fe <sup>3+</sup> ) <sub>2</sub> O <sub>4</sub> spinels from in situ high-temperature X-ray diffraction. <i>American Mineralogist</i> , 2006, 91, 306-312.    | 1.9  | 25        |
| 32 | Geothermometric study of Cr-spinels of peridotite mantle xenoliths from northern Victoria Land (Antarctica). <i>American Mineralogist</i> , 2014, 99, 839-846.   | 1.9  | 25        |
| 33 | Color mechanisms in spinel: cobalt and iron interplay for the blue color. <i>Physics and Chemistry of Minerals</i> , 2015, 42, 431-439.  | 0.8  | 25        |
| 34 | STRUCTURAL AND CHEMICAL CONTRASTS BETWEEN PRISMATIC AND FIBROUS FLUORO-EDENITE FROM BIANCAVILLA, SICILY, ITALY. <i>Canadian Mineralogist</i> , 2007, 45, 249-262.  | 1.0  | 25        |
| 35 | Surface alteration mechanism and topochemistry of iron in tremolite asbestos: A step toward understanding the potential hazard of amphibole asbestos. <i>Chemical Geology</i> , 2015, 405, 28-38.  | 3.3  | 24        |
| 36 | Thermal behaviour of chlorite: an in situ single-crystal and powder diffraction study. <i>European Journal of Mineralogy</i> , 2009, 21, 581-589.  | 1.3  | 23        |

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|----|---|-----|-----------|
| 37 | Detailed crystal chemistry and iron topochemistry of asbestos occurring in its natural setting: A first step to understanding its chemical reactivity. <i>Chemical Geology</i> , 2010, 277, 197-206.  | 3.3 | 23        |
| 38 | Dissolution reaction and surface iron speciation of UICC crocidolite in buffered solution at pH 7.4: A combined ICP-OES, XPS and TEM investigation. <i>Geochimica Et Cosmochimica Acta</i> , 2014, 127, 221-232.  | 3.9 | 23        |
| 39 | Diamond-inclusion system recording old deep lithosphere conditions at Udachnaya (Siberia). <i>Scientific Reports</i> , 2019, 9, 12586.  | 3.3 | 23        |
| 40 | Crystal chemical and structural characterization of fibrous tremolite from Susa Valley, Italy, with comments on potential harmful effects on human health. <i>American Mineralogist</i> , 2008, 93, 1349-1355.  | 1.9 | 22        |
| 41 | Structural and spectroscopic characterization of a suite of fibrous amphiboles with high environmental and health relevance from Biancavilla (Sicily, Italy). <i>American Mineralogist</i> , 2009, 94, 1333-1340.   | 1.9 | 21        |
| 42 | Blue spinel crystals in the MgAl <sub>2</sub> O <sub>4</sub> -CoAl <sub>2</sub> O <sub>4</sub> series: Part I. Flux growth and chemical characterization. <i>American Mineralogist</i> , 2012, 97, 1828-1833.   | 1.9 | 21        |
| 43 | Surface chemistry and surface reactivity of fibrous amphiboles that are not regulated as asbestos. <i>Analytical and Bioanalytical Chemistry</i> , 2012, 404, 821-833.  | 3.7 | 21        |
| 44 | <sup>57</sup> Fe Mössbauer and electronic spectroscopy study on a new synthetic hercynite-based pigment. <i>Journal of the European Ceramic Society</i> , 2004, 24, 821-824.  | 5.7 | 19        |
| 45 | A critical comment on Ertl et al. (2012): "Limitations of Fe <sup>2+</sup> and Mn <sup>2+</sup> site occupancy in tourmaline: Evidence from Fe <sup>2+</sup> - and Mn <sup>2+</sup> -rich tourmaline". <i>American Mineralogist</i> , 2013, 98, 2183-2192.          | 1.9 | 19        |
| 46 | Late magmatic controls on the origin of schorlitic and foititic tourmalines from late-Variscan peraluminous granites of the Arbus pluton (SW Sardinia, Italy): Crystal-chemical study and petrological constraints. <i>Lithos</i> , 2018, 308-309, 395-411.         | 1.4 | 19        |
| 47 | Fluor-elbaite, Na(Li <sub>1.5</sub> Al <sub>1.5</sub> )Al <sub>6</sub> (Si <sub>6</sub> O <sub>18</sub> )(BO <sub>3</sub> ) <sub>3</sub> (OH) <sub>3</sub> F, a new mineral species of the tourmaline supergroup. <i>American Mineralogist</i> , 2013, 98, 297-303. | 1.9 | 18        |
| 48 | Pressure-volume equation of state for chromite and magnesiochromite: A single-crystal X-ray diffraction investigation. <i>American Mineralogist</i> , 2014, 99, 1248-1253.  | 1.9 | 18        |
| 49 | Iron topochemistry and surface reactivity of amphibole asbestos: relations with in vitro toxicity. <i>Analytical and Bioanalytical Chemistry</i> , 2012, 402, 871-881.  | 3.7 | 17        |
| 50 | Color mechanisms in spinel: a multi-analytical investigation of natural crystals with a wide range of coloration. <i>Physics and Chemistry of Minerals</i> , 2019, 46, 343-360.   | 0.8 | 17        |
| 51 | Site distribution of Fe <sup>2+</sup> and Fe <sup>3+</sup> in the axinite mineral group: New crystal-chemical formula. <i>American Mineralogist</i> , 2004, 89, 1763-1771.  | 1.9 | 14        |
| 52 | Optical absorption spectroscopy study of the causes for color variations in natural Fe-bearing gahnite: Insights from iron valency and site distribution data. <i>American Mineralogist</i> , 2014, 99, 2187-2195.  | 1.9 | 14        |
| 53 | Petrogenetic controls on the origin of tourmalinite veins from Mandrolisai igneous massif (central) Tj ETQq1 1 0.784314 rgBT /Overlock<br>1.4 11  | 1.4 | 11        |
| 54 | Structural study of magnesioaxinite and its crystal-chemical relations with axinite-group minerals. <i>European Journal of Mineralogy</i> , 2000, 12, 1185-1194.  | 1.3 | 9         |

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|----|---|-----|-----------|
| 55 | Crystal-chemical behavior of Fe <sup>2+</sup> in tourmaline dictated by structural stability: insights from a schorl with formula NaY(Fe <sub>2</sub> +2Al)Z(Al <sub>5</sub> Fe <sub>2</sub> )(Si <sub>6</sub> O <sub>18</sub> )(BO <sub>3</sub> ) <sub>3</sub> (OH) <sub>3</sub> (OH,F) from Seagull batholith (Yukon) Tj ETQq b.3.0.784314 rgBT | 0.8 | 14        |
| 56 | In situ high-temperature behaviour of fluor-elbaite: breakdown conditions and products. <i>Physics and Chemistry of Minerals</i> , 2021, 48, 1.   | 0.8 | 8         |
| 57 | Fe <sup>2+</sup> /Mg substitution in aluminate spinels: effects on elastic properties investigated by Brillouin scattering. <i>Physics and Chemistry of Minerals</i> , 2018, 45, 759-772.   | 0.8 | 6         |
| 58 | Celleriite, $\tilde{\text{Mn}}_{22}\text{Al}_6(\text{Si}_6\text{O}_{18})(\text{BO}_3)_3(\text{OH})_3(\text{OH})$ , a new mineral species of the tourmaline supergroup. <i>American Mineralogist</i> , 2022, 107, 31-42.   | 1.9 | 6         |
| 59 | HF <sup>2+</sup> EPR spectroscopy of Fe(III) impurities in a blue hercynite-based pigment. <i>Journal of the European Ceramic Society</i> , 2006, 26, 2301-2305.  | 5.7 | 3         |
| 60 | Phlogopite-pargasite coexistence in an oxygen reduced spinel-peridotite ambient. <i>Scientific Reports</i> , 2021, 11, 11829.   | 3.3 | 3         |
| 61 | Iron release in aqueous environment by fresh volcanic ash from Mount Etna (Italy) and Popocatepetl (Mexico) volcanoes. <i>Environmental Earth Sciences</i> , 2018, 77, 1.   | 2.7 | 2         |