

Philippe Vieillard

List of Publications by Year in descending order

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51
papers

2,306
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186265

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48
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docs citations

55
times ranked

2215
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Clay mineral solubility from aqueous equilibrium: Assessment of the measured thermodynamic properties. <i>Applied Geochemistry</i> , 2020, 113, 104465. | 3.0 | 15 |
| 2 | A predictive model of thermodynamic entities of hydration for smectites: Application to the formation properties of smectites. <i>Applied Geochemistry</i> , 2019, 110, 104423. | 3.0 | 6 |
| 3 | Thermodynamic properties of C-S-H, C-A-S-H and M-S-H phases: Results from direct measurements and predictive modelling. <i>Applied Geochemistry</i> , 2018, 92, 140-156. | 3.0 | 72 |
| 4 | Methodology for determining the thermodynamic properties of smectite hydration. <i>Applied Geochemistry</i> , 2017, 82, 146-163. | 3.0 | 18 |
| 5 | Mineralogy and thermodynamic properties of magnesium phyllosilicates formed during the alteration of a simplified nuclear glass. <i>Journal of Nuclear Materials</i> , 2016, 475, 255-265. | 2.7 | 16 |
| 6 | Distribution of Water in Synthetic Calcium Silicate Hydrates. <i>Langmuir</i> , 2016, 32, 6794-6805. | 3.5 | 72 |
| 7 | Hydration/dehydration behavior and thermodynamics of MX-80 montmorillonite studied using thermal analysis. <i>Thermochimica Acta</i> , 2015, 604, 83-93. | 2.7 | 25 |
| 8 | Prediction of enthalpies of formation of hydrous sulfates. <i>American Mineralogist</i> , 2015, 100, 615-627. | 1.9 | 10 |
| 9 | Crystal structure of magnesium silicate hydrates (M-S-H): The relation with 2:1 Mg-Si phyllosilicates. <i>Cement and Concrete Research</i> , 2015, 73, 228-237. | 11.0 | 139 |
| 10 | ThermoChimie database developments in the framework of cement/clay interactions. <i>Applied Geochemistry</i> , 2015, 55, 95-107. | 3.0 | 43 |
| 11 | A generalized model for predicting the thermodynamic properties of clay minerals. <i>Numerische Mathematik</i> , 2015, 315, 734-780. | 1.4 | 50 |
| 12 | Thermodynamic properties of chlorite and berthierine derived from calorimetric measurements. <i>Physics and Chemistry of Minerals</i> , 2014, 41, 603-615. | 0.8 | 12 |
| 13 | Andra thermodynamic database for performance assessment: ThermoChimie. <i>Applied Geochemistry</i> , 2014, 49, 225-236. | 3.0 | 259 |
| 14 | Ten Years of Toarcian Argillite - Carbon Steel In Situ Interaction. <i>Procedia Earth and Planetary Science</i> , 2013, 7, 195-198. | 0.6 | 3 |
| 15 | Thermodynamic properties of saponite, nontronite, and vermiculite derived from calorimetric measurements. <i>American Mineralogist</i> , 2013, 98, 1834-1847. | 1.9 | 21 |
| 16 | Partitioning of lithium between smectite and solution: An experimental approach. <i>Geochimica Et Cosmochimica Acta</i> , 2012, 85, 314-325. | 3.9 | 41 |
| 17 | Thermodynamic properties of illite, smectite and beidellite by calorimetric methods: Enthalpies of formation, heat capacities, entropies and Gibbs free energies of formation. <i>Geochimica Et Cosmochimica Acta</i> , 2012, 89, 279-301. | 3.9 | 61 |
| 18 | Thermodynamics of Hydration in Minerals: How to Predict These Entities. , 2012, , . | | 5 |

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|----|--|-----|-----------|
| 19 | The thermodynamic properties of the upper continental crust: Exergy, Gibbs free energy and enthalpy. <i>Energy</i> , 2012, 41, 121-127. | 8.8 | 20 |
| 20 | Hydration thermodynamics of the SWy-1 montmorillonite saturated with alkali and alkaline-earth cations: A predictive model. <i>Geochimica Et Cosmochimica Acta</i> , 2011, 75, 5664-5685. | 3.9 | 24 |
| 21 | A predictive model for the enthalpies of formation of zeolites. <i>Microporous and Mesoporous Materials</i> , 2010, 132, 335-351. | 4.4 | 27 |
| 22 | A predictive model for the entropies and heat capacities of zeolites. <i>European Journal of Mineralogy</i> , 2010, 22, 823-836. | 1.3 | 28 |
| 23 | Leaching experiments on a Mn-rich slag from the recycling of alkaline batteries – Solid phase characterization and geochemical modeling. <i>Applied Geochemistry</i> , 2010, 25, 1187-1197. | 3.0 | 5 |
| 24 | A predictive model for the enthalpies of hydration of zeolites. <i>American Mineralogist</i> , 2009, 94, 565-577. | 1.9 | 14 |
| 25 | Application of Chemical Geothermometry to Low-Temperature Trioctahedral Chlorites. <i>Clays and Clay Minerals</i> , 2009, 57, 371-382. | 1.3 | 134 |
| 26 | Hydrothermal synthesis, between 75 and 150°C, of High-charge, ferric nontronites. <i>Clays and Clay Minerals</i> , 2008, 56, 322-337. | 1.3 | 64 |
| 27 | Alteration of spodumene to cookeite and its pressure and temperature stability conditions in Li-bearing aplite-pegmatites from northern Portugal. <i>Clays and Clay Minerals</i> , 2007, 55, 295-310. | 1.3 | 22 |
| 28 | A new simple approach to evaluate pedogenic clay transformation in a Vertic Calcisol. <i>Journal of Geochemical Exploration</i> , 2006, 88, 345-349. | 3.2 | 4 |
| 29 | Differences in the dehydration-rehydration behavior of halloysites: new evidence and interpretations. <i>Clays and Clay Minerals</i> , 2006, 54, 473-484. | 1.3 | 35 |
| 30 | ALUMINUM PHOSPHATE-SULFATE MINERALS ASSOCIATED WITH PROTEROZOIC UNCONFORMITY-TYPE URANIUM DEPOSITS IN THE EAST ALLIGATOR RIVER URANIUM FIELD, NORTHERN TERRITORIES, AUSTRALIA. <i>Canadian Mineralogist</i> , 2005, 43, 813-827. | 1.0 | 57 |
| 31 | Alteration of the Callovo-Oxfordian clay from Meuse-Haute Marne underground laboratory (France) by alkaline solution. I. A XRD and CEC study. <i>Applied Geochemistry</i> , 2005, 20, 89-99. | 3.0 | 60 |
| 32 | Thermodynamic properties of the Tschermak solid solution in Fe-chlorite: Application to natural examples and possible role of oxidation. <i>American Mineralogist</i> , 2005, 90, 347-358. | 1.9 | 169 |
| 33 | Thermodynamic constraints on the mineralogical and fluid composition evolution in a clastic sedimentary basin: the Athabasca Basin (Saskatchewan, Canada). <i>European Journal of Mineralogy</i> , 2005, 17, 325-341. | 1.3 | 27 |
| 34 | Hydrothermal synthesis of aegirine at 200C. <i>European Journal of Mineralogy</i> , 2004, 16, 85-90. | 1.3 | 32 |
| 35 | Prediction of Gibbs free energies of formation of minerals of the alunite supergroup. <i>Geochimica Et Cosmochimica Acta</i> , 2004, 68, 3307-3316. | 3.9 | 67 |
| 36 | Alteration of the Callovo-Oxfordian clay from Meuse-Haute Marne Underground Laboratory (France) by alkaline solution: II. Modelling of mineral reactions. <i>Applied Geochemistry</i> , 2004, 19, 1699-1709. | 3.0 | 42 |

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|----|--|-----|-----------|
| 37 | A New Method for the Prediction of Gibbs Free Energies of Formation of Phyllosilicates (10 Å... and 14 Å...) Based on the Electronegativity Scale. <i>Clays and Clay Minerals</i> , 2002, 50, 352-363. | 1.3 | 53 |
| 38 | Thermodynamics of ice polymorphs and "ice-like"™ water in hydrates and hydroxides. <i>Applied Geochemistry</i> , 2001, 16, 161-181. | 3.0 | 70 |
| 39 | Expandability- layer stacking relationship during experimental alteration of a Wyoming bentonite in pH 13.5 solutions at 35 and 60°C. <i>Clay Minerals</i> , 2001, 36, 197-210. | 0.6 | 25 |
| 40 | A New Method for the Prediction of Gibbs Free Energies of Formation of Hydrated Clay Minerals Based on the Electronegativity Scale. <i>Clays and Clay Minerals</i> , 2000, 48, 459-473. | 1.3 | 87 |
| 41 | Early weathering of palladium gold under lateritic conditions, Maquinã Mine, Minas Gerais, Brazil. <i>Applied Geochemistry</i> , 2000, 15, 245-263. | 3.0 | 35 |
| 42 | Le concept d'eau ice-like: hydratation-déshydratation des sels, hydroxydes, zeolites, argiles et matières organiques vivantes ou inertes. <i>Comptes Rendus De L'Académie Des Sciences Earth & Planetary Sciences Série II, Sciences De La Terre Et Des Planètes</i> , 1999, 329, 377-388. | 0.2 | 1 |
| 43 | Minent: A fortran program for prediction of enthalpy of formation from elements of minerals with known crystal refinements. <i>Computers and Geosciences</i> , 1996, 22, 165-179. | 4.2 | 3 |
| 44 | Estimation of enthalpy of formation of some zeolites from their refined crystal structures. <i>Zeolites</i> , 1995, 15, 202-212. | 0.5 | 7 |
| 45 | Prediction of enthalpy of formation based on refined crystal structures of multisite compounds: Part 1. Theories and examples. <i>Geochimica Et Cosmochimica Acta</i> , 1994, 58, 4049-4063. | 3.9 | 34 |
| 46 | Prediction of enthalpy of formation based on refined crystal structures of multisite compounds: Part 2. Application to minerals belonging to the system Li ₂ O-Na ₂ O-K ₂ O-BeO-MgO-CaO-MnO-FeO-Fe ₂ O ₃ -Al ₂ O ₃ -SiO ₂ -H ₂ O. Results and discussion. <i>Geochimica Et Cosmochimica Acta</i> , 1994, 58, 4065-4107. | 3.9 | 35 |
| 47 | Quantitative approach to physical and chemical gold mobility in equatorial rainforest lateritic environment. <i>Earth and Planetary Science Letters</i> , 1993, 114, 269-285. | 4.4 | 49 |
| 48 | Zircon: an immobile index in soils?. <i>Chemical Geology</i> , 1993, 107, 273-276. | 3.3 | 58 |
| 49 | Hydrothermal alterations in the Echassières granitic cupola (Massif central, France). <i>Contributions To Mineralogy and Petrology</i> , 1992, 112, 279-292. | 3.1 | 19 |
| 50 | Behavior of gold in the lateritic equatorial environment: weathering and surface dispersion of residual gold particles, at Dondo Mobi, Gabon. <i>Applied Geochemistry</i> , 1991, 6, 279-290. | 3.0 | 60 |
| 51 | Relationships among Gibbs free energies and enthalpies of formation of phosphates, oxides and aqueous ions. <i>Contributions To Mineralogy and Petrology</i> , 1977, 63, 75-88. | 3.1 | 37 |