Philippe Vieillard

List of Publications by Year
in descending order

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51	2,306	186265 28	206112 48
papers	citations	h-index	g-index

55	55	55	2215
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Andra thermodynamic database for performance assessment: ThermoChimie. Applied Geochemistry, 2014, 49, 225-236.	3.0	259
2	Thermodynamic properties of the Tschermak solid solution in Fe-chlorite: Application to natural examples and possible role of oxidation. American Mineralogist, 2005, 90, 347-358.	1.9	169
3	Crystal structure of magnesium silicate hydrates (M-S-H): The relation with 2:1 Mgâ€“Si phyllosilicates. Cement and Concrete Research, 2015, 73, 228-237.	11.0	139
4	Application of Chemical Geothermometry to Low-Temperature Trioctahedral Chlorites. Clays and Clay Minerals, 2009, 57, 371-382.	1.3	134
5	A New Method for the Prediction of Gibbs Free Energies of Formation of Hydrated Clay Minerals Based on the Electronegativity Scale. Clays and Clay Minerals, 2000, 48, 459-473.	1.3	87
6	Distribution of Water in Synthetic Calcium Silicate Hydrates. Langmuir, 2016, 32, 6794-6805.	3.5	72
7	Thermodynamic properties of C-S-H, C-A-S-H and M-S-H phases: Results from direct measurements and predictive modelling. Applied Geochemistry, 2018, 92, 140-156.	3.0	72
8	Thermodynamics of ice polymorphs and â€˜ice-likeâ€™ water in hydrates and hydroxides. Applied Geochemistry, 2001, 16, 161-181.	3.0	70
9	Prediction of Gibbs free energies of formation of minerals of the alunite supergroup. Geochimica Et Cosmochimica Acta, 2004, 68, 3307-3316.	3.9	67
10	Hydrothermal synthesis, between 75 and 150Â°C, of High-charge, ferric nontronites. Clays and Clay Minerals, 2008, 56, 322-337.	1.3	64
11	Thermodynamic properties of illite, smectite and beidellite by calorimetric methods: Enthalpies of formation, heat capacities, entropies and Gibbs free energies of formation. Geochimica Et Cosmochimica Acta, 2012, 89, 279-301.	3.9	61
12	Behavior of gold in the lateritic equatorial environment: weathering and surface dispersion of residual gold particles, at Dondo Mobi, Gabon. Applied Geochemistry, 1991, 6, 279-290.	3.0	60
13	Alteration of the Callovoâ€“Oxfordian clay from Meuse-Haute Marne underground laboratory (France) by alkaline solution. I. A XRD and CEC study. Applied Geochemistry, 2005, 20, 89-99.	3.0	60
14	Zircon: an immobile index in soils?. Chemical Geology, 1993, 107, 273-276.	3.3	58
15	ALUMINUM PHOSPHATE-SULFATE MINERALS ASSOCIATED WITH PROTEROZOIC UNCONFORMITY-TYPE URANIUM DEPOSITS IN THE EAST ALLIGATOR RIVER URANIUM FIELD, NORTHERN TERRITORIES, AUSTRALIA. Canadian Mineralogist, 2005, 43, 813-827.	1.0	57
16	A New Method for the Prediction of Gibbs Free Energies of Formation of Phyllosilicates (10 Ã... and 14 Ã...) Based on the Electronegativity Scale. Clays and Clay Minerals, 2002, 50, 352-363.	1.3	53
17	A generalized model for predicting the thermodynamic properties of clay minerals. Numerische Mathematik, 2015, 315, 734-780.	1.4	50
18	Quantitative approach to physical and chemical gold mobility in equatorial rainforest lateritic environment. Earth and Planetary Science Letters, 1993, 114, 269-285.	4.4	49

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19	ThermoChimie database developments in the framework of cement/clay interactions. Applied Geochemistry, 2015, 55, 95-107.	3.0	43
20	Alteration of the Callovo-Oxfordian clay from Meuse-Haute Marne Underground Laboratory (France) by alkaline solution: II. Modelling of mineral reactions. Applied Geochemistry, 2004, 19, 1699-1709.	3.0	42
21	Partitioning of lithium between smectite and solution: An experimental approach. Geochimica Et Cosmochimica Acta, 2012, 85, 314-325.	3.9	41
22	Relationships among Gibbs free energies and enthalpies of formation of phosphates, oxides and aqueous ions. Contributions To Mineralogy and Petrology, 1977, 63, 75-88.	3.1	37
23	Prediction of enthalpy of formation based on refined crystal structures of multisite compounds: Part 2. Application to minerals belonging to the system Li2O-Na2O-K2O-BeO-MgO-CaO-MnO-FeO-Fe2O3-Al2O3-SiO2-H2O. Results and discussion. Geochimica Et Cosmochimica Acta, 1994, 58, 4065-4107.	3.9	35
24	Early weathering of palladium gold under lateritic conditions, MaquinÃ© Mine, Minas Gerais, Brazil. Applied Geochemistry, 2000, 15, 245-263.	3.0	35
25	Differences in the dehydration-rehydration behavior of halloysites: new evidence and interpretations. Clays and Clay Minerals, 2006, 54, 473-484.	1.3	35
26	Prediction of enthalpy of formation based on refined crystal structures of multisite compounds: Part 1. Theories and examples. Geochimica Et Cosmochimica Acta, 1994, 58, 4049-4063.	3.9	34
27	Hydrothermal synthesis of aegirine at 200C. European Journal of Mineralogy, 2004, 16, 85-90.	1.3	32
28	A predictive model for the entropies and heat capacities of zeolites. European Journal of Mineralogy, 2010, 22, 823-836.	1.3	28
29	A predictive model for the enthalpies of formation of zeolites. Microporous and Mesoporous Materials, 2010, 132, 335-351.	4.4	27
30	Thermodynamic constraints on the mineralogical and fluid composition evolution in a clastic sedimentary basin: the Athabasca Basin (Saskatchewan, Canada). European Journal of Mineralogy, 2005, 17, 325-341.	1.3	27
31	Expandability- layer stacking relationship during experimental alteration of a Wyoming bentonite in pH 13.5 solutions at 35 and 60Â°C. Clay Minerals, 2001, 36, 197-210.	0.6	25
32	Hydrationâ€“dehydration behavior and thermodynamics of MX-80 montmorillonite studied using thermal analysis. Thermochimica Acta, 2015, 604, 83-93.	2.7	25
33	Hydration thermodynamics of the SWy-1 montmorillonite saturated with alkali and alkaline-earth cations: A predictive model. Geochimica Et Cosmochimica Acta, 2011, 75, 5664-5685.	3.9	24
34	Alteration of spodumene to cookeite and its pressure and temperature stability conditions in Li-bearing aplite-pegmatites from northern Portugal. Clays and Clay Minerals, 2007, 55, 295-310.	1.3	22
35	Thermodynamic properties of saponite, nontronite, and vermiculite derived from calorimetric measurements. American Mineralogist, 2013, 98, 1834-1847.	1.9	21
36	The thermodynamic properties of the upper continental crust: Exergy, Gibbs free energy and enthalpy. Energy, 2012, 41, 121-127.	8.8	20

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37	Hydrothermal alterations in the Echassiï¿½res granitic cupola (Massif central, france). Contributions To Mineralogy and Petrology, 1992, 112, 279-292.	3.1	19
38	Methodology for determining the thermodynamic properties of smectite hydration. Applied Geochemistry, 2017, 82, 146-163.	3.0	18
39	Mineralogy and thermodynamic properties of magnesium phyllosilicates formed during the alteration of a simplified nuclear glass. Journal of Nuclear Materials, 2016, 475, 255-265.	2.7	16
40	Clay mineral solubility from aqueous equilibrium: Assessment of the measured thermodynamic properties. Applied Geochemistry, 2020, 113, 104465.	3.0	15
41	A predictive model for the enthalpies of hydration of zeolites. American Mineralogist, 2009, 94, 565-577.	1.9	14
42	Thermodynamic properties of chlorite and berthierine derived from calorimetric measurements. Physics and Chemistry of Minerals, 2014, 41, 603-615.	0.8	12
43	Prediction of enthalpies of formation of hydrous sulfates. American Mineralogist, 2015, 100, 615-627.	1.9	10
44	Estimation of enthalpy of formation of some zeolites from their refined crystal structures. Zeolites, 1995, 15, 202-212.	0.5	7
45	A predictive model of thermodynamic entities of hydration for smectites: Application to the formation properties of smectites. Applied Geochemistry, 2019, 110, 104423.	3.0	6
46	Leaching experiments on a Mn-rich slag from the recycling of alkaline batteries â€“ Solid phase characterization and geochemical modeling. Applied Geochemistry, 2010, 25, 1187-1197.	3.0	5
47	Thermodynamics of Hydration in Minerals: How to Predict These Entities. , 2012, , .		5
48	A new simple approach to evaluate pedogenic clay transformation in a Vertic Calcisol. Journal of Geochemical Exploration, 2006, 88, 345-349.	3.2	4
49	Minent: A fortran program for prediction of enthalpy of formation from elements of minerals with known crystal refinements. Computers and Geosciences, 1996, 22, 165-179.	4.2	3
50	Ten Years of Toarcian Argillite - Carbon Steel In Situ Interaction. Procedia Earth and Planetary Science, 2013, 7, 195-198.	0.6	3
51	Le concept d'eau ice-like: hydratation-dÃ©shydratation des sels, hydroxydes, zeolites, argiles et matiÃ¨res organiques vivantes ou inertes. Comptes Rendus De L'AcadÃ©mie Des Sciences Earth & Planetary Sciences SÃ©rie II, Sciences De La Terre Et Des PlanÃ¨tes =, 1999, 329, 377-388.	0.2	1