

Jannick Ingrin

List of Publications by Year in descending order

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67
papers

2,591
citations

201674

27
h-index

189892

50
g-index

70
all docs

70
docs citations

70
times ranked

1747
citing authors

#	ARTICLE	IF	CITATIONS
1	Hydrogen in nominally anhydrous upper-mantle minerals: concentration levels and implications. <i>European Journal of Mineralogy</i> , 2000, 12, 543-570.	1.3	277
2	Water partitioning between mantle minerals from peridotite xenoliths. <i>Contributions To Mineralogy and Petrology</i> , 2007, 154, 15-34.	3.1	167
3	Coesite in subducted continental crust: P-T history deduced from an elastic model. <i>Earth and Planetary Science Letters</i> , 1984, 70, 426-436.	4.4	144
4	High-temperature X-ray diffraction and Raman spectroscopy of diopside and pseudowollastonite. <i>Physics and Chemistry of Minerals</i> , 1998, 25, 401-414.	0.8	123
5	Diffusion of hydrogen in diopside: Results of dehydration experiments. <i>Journal of Geophysical Research</i> , 1995, 100, 15489-15499.	3.3	112
6	Hydrogen in diopside; diffusion, kinetics of extraction-incorporation, and solubility. <i>American Mineralogist</i> , 1999, 84, 1577-1587.	1.9	108
7	Diffusion of Hydrogen in Minerals. <i>Reviews in Mineralogy and Geochemistry</i> , 2006, 62, 291-320.	4.8	98
8	Redox state, microstructure and viscosity of a partially crystallized basalt melt. <i>Earth and Planetary Science Letters</i> , 2004, 218, 31-44.	4.4	77
9	Water in diopside: an electron microscopy and infrared spectroscopy study. <i>European Journal of Mineralogy</i> , 1989, 1, 327-342.	1.3	76
10	Deformation and seismic anisotropy of the lithospheric mantle in the southeastern Carpathians inferred from the study of mantle xenoliths. <i>Earth and Planetary Science Letters</i> , 2008, 272, 50-64.	4.4	70
11	Theoretical infrared spectrum of OH-defects in forsterite. <i>European Journal of Mineralogy</i> , 2011, 23, 285-292.	1.3	69
12	Heterogeneous source components of intraplate basalts from NE China induced by the ongoing Pacific slab subduction. <i>Earth and Planetary Science Letters</i> , 2017, 459, 208-220.	4.4	67
13	Premelting effects in minerals: an experimental study. <i>Earth and Planetary Science Letters</i> , 1994, 121, 589-600.	4.4	66
14	High-temperature deformation of diopside single crystal: 2. Transmission electron microscopy investigation of the defect microstructures. <i>Journal of Geophysical Research</i> , 1991, 96, 14287-14297.	3.3	65
15	Water Content and Oxygen Isotopic Composition of Alkali Basalts from the Taihang Mountains, China: Recycled Oceanic Components in the Mantle Source. <i>Journal of Petrology</i> , 2015, 56, 681-702.	2.8	60
16	Is the transition zone an empty water reservoir? Inferences from numerical model of mantle dynamics. <i>Earth and Planetary Science Letters</i> , 2002, 205, 37-51.	4.4	58
17	Changing recycled oceanic components in the mantle source of the Shuangliao Cenozoic basalts, NE China: New constraints from water content. <i>Tectonophysics</i> , 2015, 650, 113-123.	2.2	56
18	Theoretical infrared absorption coefficient of OH groups in minerals. <i>American Mineralogist</i> , 2008, 93, 950-953.	1.9	54

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19	Creep of polycrystalline anorthite and diopside. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	46
20	Contrasting response of ThSiO ₄ and monazite to natural irradiation. <i>European Journal of Mineralogy</i> , 2007, 19, 7-14.	1.3	45
21	Premelting and high-temperature diffusion of Ca in synthetic diopside: An increase of the cation mobility. <i>Physics and Chemistry of Minerals</i> , 1995, 22, 437.	0.8	42
22	Effect of iron and trivalent cations on OH defects in olivine. <i>American Mineralogist</i> , 2017, 102, 302-311.	1.9	39
23	Composition and orientation dependence of the OK and Fe L _{2,3} EELS fine structures in Ca ₂ (Al _x Fe _{1-x}) ₂ O ₅ . <i>Physical Review B</i> , 2000, 61, 2587-2594.	3.2	37
24	Water concentration profiles in natural mantle orthopyroxenes: A geochronometer for long annealing of xenoliths within magma. <i>Geology</i> , 2017, 45, 87-90.	4.4	35
25	Hydrogen diffusion in Dora Maira pyrope. <i>Physics and Chemistry of Minerals</i> , 2004, 31, 593-605.	0.8	33
26	Anisotropy of oxygen diffusion in diopside. <i>Earth and Planetary Science Letters</i> , 2001, 192, 347-361.	4.4	32
27	Low-temperature evolution of OH bands in synthetic forsterite, implication for the nature of H defects at high pressure. <i>Physics and Chemistry of Minerals</i> , 2013, 40, 499-510.	0.8	30
28	Identification of hydrogen defects linked to boron substitution in synthetic forsterite and natural olivine. <i>American Mineralogist</i> , 2014, 99, 2138-2141.	1.9	28
29	Deviatoric stress in a girdle-anvil type high-pressure apparatus: effect on the quartz-coesite phase transformation. <i>Physics of the Earth and Planetary Interiors</i> , 1989, 54, 378-385.	1.9	25
30	Kinetics of hydrogen extraction and deuteration in grossular. <i>Mineralogical Magazine</i> , 2005, 69, 359-371.	1.4	24
31	13. Diffusion of Hydrogen in Minerals. , 2006, , 291-320.		24
32	TEM evidence of perovskite-brownmillerite coexistence in the Ca(Al _x Fe _{1-x}) ₂ O ₅ system with minor amounts of titanium and silicon. <i>Physics and Chemistry of Minerals</i> , 2000, 27, 504-513.	0.8	23
33	Kinetics of deuteration in pyrope. <i>European Journal of Mineralogy</i> , 2004, 16, 567-576.	1.3	23
34	Kinetic D/H fractionation during hydration and dehydration of silicate glasses, melts and nominally anhydrous minerals. <i>Geochimica Et Cosmochimica Acta</i> , 2018, 233, 14-32.	3.9	23
35	Contribution of interstitial OH groups to the incorporation of water in forsterite. <i>Physics and Chemistry of Minerals</i> , 2014, 41, 105-114.	0.8	20
36	Extremely low structural hydroxyl contents in upper mantle xenoliths from the Ngrd-Gmr Volcanic Field (northern Pannonian Basin): Geodynamic implications and the role of post-eruptive re-equilibration. <i>Chemical Geology</i> , 2019, 507, 23-41.	3.3	20

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37	TEM observations of several spinel-garnet assemblies: toward the rheology of the transition zone. <i>Terra Nova</i> , 1995, 7, 509-515.	2.1	19
38	Theoretical study of OH-defects in pure enstatite. <i>Physics and Chemistry of Minerals</i> , 2013, 40, 41-50.	0.8	18
39	Early partial melting of diopside under high pressure. <i>Physics of the Earth and Planetary Interiors</i> , 1995, 89, 77-88.	1.9	17
40	High-temperature diffusion of oxygen in synthetic diopside measured by nuclear reaction analysis. <i>Mineralogical Magazine</i> , 1999, 63, 673-686.	1.4	17
41	Fluid-mediated alteration of (Y,REE,U,Th) ϵ (Nb,Ta,Ti) oxide minerals in granitic pegmatite from the Evje-lveland district, southern Norway. <i>Mineralogy and Petrology</i> , 2016, 110, 581-599.	1.1	16
42	Electrical conductivity of omphacite and garnet indicates limited deep water recycling by crust subduction. <i>Earth and Planetary Science Letters</i> , 2021, 559, 116784.	4.4	16
43	Anisotropy of hydrogen diffusion in tourmaline. <i>Geochimica Et Cosmochimica Acta</i> , 2007, 71, 5233-5243.	3.9	15
44	Multi-stage metasomatism revealed by trace element and Li isotope distributions in minerals of peridotite xenoliths from All \grave{a} gre volcano (French Massif Central). <i>Lithos</i> , 2016, 264, 158-174.	1.4	15
45	Theoretical Raman spectrum and anharmonicity of tetrahedral OH defects in hydrous forsterite. <i>European Journal of Mineralogy</i> , 2017, 29, 201-212.	1.3	15
46	TEM investigation of the crystal microstructures in a quartz-coesite assemblage of the western alps. <i>Physics and Chemistry of Minerals</i> , 1986, 13, 325-330.	0.8	14
47	Water content of the Xiaogulihe ultrapotassic volcanic rocks, NE China: implications for the source of the potassium-rich component. <i>Science Bulletin</i> , 2015, 60, 1468-1470.	9.0	14
48	Theoretical infrared spectrum of partially protonated cationic vacancies in forsterite. <i>European Journal of Mineralogy</i> , 2014, 26, 203-210.	1.3	13
49	TEM imaging of polytypism in pseudowollastonite. <i>Physics and Chemistry of Minerals</i> , 1993, 20, 56.	0.8	12
50	Mechanisms of OH defect incorporation in naturally occurring, hydrothermally formed diopside and jadeite. <i>Physics and Chemistry of Minerals</i> , 2007, 34, 543-549.	0.8	12
51	Metasomatism in the sub-continental lithospheric mantle beneath the south French Massif Central: Constraints from trace elements, Li and H in peridotite minerals. <i>Chemical Geology</i> , 2018, 478, 2-17.	3.3	12
52	Nature of hydrogen defects in clinopyroxenes from room temperature up to 1000 \AA C: Implication for the preservation of hydrogen in the upper mantle and impact on electrical conductivity. <i>American Mineralogist</i> , 2019, 104, 79-93.	1.9	12
53	Transmission electron microscopy of ejecta from the XVith century eruption of the Soufri \grave{a} re, Guadeloupe; microscopic evidence for magma mixing. <i>Journal of Volcanology and Geothermal Research</i> , 1986, 28, 161-174.	2.1	10
54	Exocam: Mars in a box to simulate soil-atmosphere interactions. <i>Advances in Space Research</i> , 2001, 27, 189-193.	2.6	10

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55	Hydrogen incorporation in a ringwoodite analogue: Mg ₂ GeO ₄ spinel. Mineralogical Magazine, 2005, 69, 337-343.	1.4	7
56	Low-temperature infrared spectrum and atomic-scale structure of hydrous defects in diopside. European Journal of Mineralogy, 2020, 32, 505-520.	1.3	6
57	Typical oxygen isotope profile of altered oceanic crust recorded in continental intraplate basalts. Journal of Earth Science (Wuhan, China), 2017, 28, 578-587.	3.2	5
58	Kinetics of deuteration in andradite and garnet. American Mineralogist, 2015, 100, 1400-1410.	1.9	4
59	Mantle metasomatic influence on water contents in continental lithosphere: New constraints from garnet pyroxenite xenoliths (France & Cameroon volcanic provinces). Chemical Geology, 2021, 575, 120257.	3.3	4
60	Transmission electron microscopic study of the immiscibility in natural and synthetic rhyolitic glasses. Earth and Planetary Science Letters, 1986, 79, 168-178.	4.4	3
61	A Griggs deformation apparatus set up at Lille. Terra Nova, 1991, 3, 603-606.	2.1	3
62	New constraints on metamorphic history of Adirondack diopsides (New York, U.S.A.): Al and ¹⁸ O profiles. American Mineralogist, 2007, 92, 453-459.	1.9	3
63	Report on the 1993 and 1994 Round Robin EDXS Tests of the Ile de France TEM Network. Microscopy Microanalysis Microstructures, 1995, 6, 385-392.	0.4	1
64	New electron microscopy and infrared spectroscopy data on water in diopside. Chemical Geology, 1988, 70, 162.	3.3	0
65	EMPG XIII. European Journal of Mineralogy, 2011, 23, 283-284.	1.3	0
66	Citation for the 2021 Science Innovation Award to Fabrice Gaillard. Geochimica Et Cosmochimica Acta, 2021, 314, 412-413.	3.9	0
67	Minerals and Reactions at the Atomic Scale: Transmission Electron Microscopy P. Buseck, Ed. Reviews in Mineralogy (Mineralogical Society of America, 1992) Volume 27, 508 p., US\$ 28. Microscopy Microanalysis Microstructures, 1993, 4, 407-408.	0.4	0