

Damien Jacob

List of Publications by Year in descending order

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Version: 2024-02-01

54
papers

2,262
citations

471509

17
h-index

233421

45
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58
all docs

58
docs citations

58
times ranked

2071
citing authors

#	ARTICLE	IF	CITATIONS
1	Mechanical twinning of monazite expels radiogenic lead. <i>Geology</i> , 2021, 49, 417-421.	4.4	21
2	STEM-EELS Investigation of Planar Defects in Olivine in the Allende Meteorite. <i>Minerals (Basel)</i> , 2020, 10, 5070.	2.0	5
3	In Situ Fe and S isotope analyses in pyrite from the 3.2 Ga Mendon Formation (Barberton Greenstone). <i>Minerals (Basel)</i> , 2020, 10, 5070.	2.4	25
4	Anhydrous Phase B: Transmission Electron Microscope Characterization and Elastic Properties. <i>Geochemistry, Geophysics, Geosystems</i> , 2019, 20, 4059-4072.	2.5	1
5	Lasnierite, (Ca,Sr)(Mg,Fe) ₂ Al(PO ₄) ₃ , a new phosphate accompanying lazulite from Mt. Ibity, Madagascar: an example of structural characterization from dynamical refinement of precession electron diffraction data on submicrometre sample. <i>European Journal of Mineralogy</i> , 2019, 31, 379-388.	1.3	6
6	A Kinetic Study of Order-Disorder Transition in Ni-Cr Based Alloys. <i>Minerals, Metals and Materials Series</i> , 2019, , 233-249.	0.4	2
7	A TEM study of exsolution in Ca-rich pyroxenes from the Paris and Renazzo chondrites: Determination of type I chondrule cooling rates. <i>Meteoritics and Planetary Science</i> , 2018, 53, 482-492.	1.6	2
8	A Kinetic Study of Order-Disorder Transition in Ni-Cr Based Alloys. <i>Minerals, Metals and Materials Series</i> , 2018, , 233-249.	0.4	2
9	Exsolution and shock microstructures of igneous pyroxene clasts in the Northwest Africa 7533 Martian meteorite. <i>Meteoritics and Planetary Science</i> , 2016, 51, 932-945.	1.6	13
10	Nanoscale structure refinement of pyroxenes using precession electron diffraction tomography. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2015, 71, s304-s305.	0.1	0
11	Accurate structure refinement from electron diffraction tomography data. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2015, 71, s53-s53.	0.1	0
12	Fe-Mg interdiffusion profiles in rimmed forsterite grains in the Allende matrix: Time-temperature constraints for the parent body metamorphism. <i>Meteoritics and Planetary Science</i> , 2015, 50, 1529-1545.	1.6	12
13	Nickeliferous pyrite tracks pervasive hydrothermal alteration in Martian regolith breccia: A study in NWA 7533. <i>Meteoritics and Planetary Science</i> , 2015, 50, 2099-2120.	1.6	32
14	Structure refinement using precession electron diffraction tomography and dynamical diffraction: tests on experimental data. <i>Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials</i> , 2015, 71, 740-751.	1.1	115
15	Monoclinic superstructure in orthorhombic Ce ₁₀ W ₂₂ O ₈₁ from transmission electron microscopy. <i>Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials</i> , 2014, 70, 268-274.	1.1	8
16	On the Use of Precession Electron Diffraction for Minerals Characterization: From Twinning Identification to Structure Refinement. <i>Microscopy and Microanalysis</i> , 2014, 20, 1684-1685.	0.4	0
17	Accurate structure refinement from 3D electron diffraction data. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2014, 70, C374-C374.	0.1	0
18	A petrographic and isotopic criterion of the state of preservation of Precambrian cherts based on the characterization of the quartz veins. <i>Precambrian Research</i> , 2013, 231, 290-300.	2.7	16

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19	Iron valence state of fine-grained material from the Jupiter family comet 81P/Wild 2 – A coordinated TEM/STEM EDS/STXM study. <i>Geochimica Et Cosmochimica Acta</i> , 2013, 122, 1-16.	3.9	17
20	Ordering state in orthopyroxene as determined by precession electron diffraction. <i>American Mineralogist</i> , 2013, 98, 1526-1534.	1.9	7
21	Structure refinement from precession electron diffraction data. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2013, 69, 171-188.	0.3	69
22	Fine-grained material encased in microtracks of Stardust samples. <i>Meteoritics and Planetary Science</i> , 2013, 48, 1607-1617.	1.6	7
23	A systematic method to identify the space group from PED and CBED patterns part I - theory. <i>Ultramicroscopy</i> , 2012, 121, 42-60.	1.9	17
24	A systematic method to identify the space group from PED and CBED patterns part II – practical examples. <i>Ultramicroscopy</i> , 2012, 121, 61-71.	1.9	11
25	Mineralogy and petrology of Stardust particles encased in the bulb of track 80: TEM investigation of the Wild 2 fine-grained material. <i>Geochimica Et Cosmochimica Acta</i> , 2012, 87, 35-50.	3.9	36
26	Microstructure modifications of silicates induced by the collection in aerogel: Experimental approach and comparison with Stardust results. <i>Meteoritics and Planetary Science</i> , 2012, 47, 696-707.	1.6	8
27	Structure refinement against precession electron diffraction data. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2012, 68, s60-s60.	0.3	0
28	The state of order in Fe-Al studied by precession electron diffraction. <i>Philosophical Magazine Letters</i> , 2011, 91, 54-60.	1.2	2
29	Magnetic microstructures of metal grains in equilibrated ordinary chondrites and implications for paleomagnetism of meteorites. <i>Earth and Planetary Science Letters</i> , 2011, 306, 241-252.	4.4	55
30	A precession electron diffraction study of \hat{I}_1 , \hat{I}_2 phases and Dauphiné twin in quartz. <i>Ultramicroscopy</i> , 2010, 110, 1166-1177.	1.9	11
31	Application of precession electron diffraction to the characterization of (021) twinning in pseudo-hexagonal coesite. <i>American Mineralogist</i> , 2009, 94, 684-692.	1.9	13
32	An efficient approach to characterize pseudo-merohedral twins by precession electron diffraction: Application to the LaGaO ₃ perovskite. <i>Ultramicroscopy</i> , 2009, 109, 1282-1294.	1.9	13
33	Oxidation state of iron and extensive redistribution of sulfur in thermally modified Stardust particles. <i>Geochimica Et Cosmochimica Acta</i> , 2009, 73, 767-777.	3.9	29
34	Pyroxenes microstructure in comet 81P/Wild 2 terminal Stardust particles. <i>Meteoritics and Planetary Science</i> , 2009, 44, 1475-1488.	1.6	27
35	A TEM study of four particles extracted from the Stardust track 80. <i>Meteoritics and Planetary Science</i> , 2009, 44, 1511-1518.	1.6	17
36	Effect of sample bending on diffracted intensities observed in CBED patterns of plan view strained samples. <i>Ultramicroscopy</i> , 2008, 108, 295-301.	1.9	7

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37	Composition analysis of semiconductor quantum wells by energy filtered convergent-beam electron diffraction. <i>Ultramicroscopy</i> , 2008, 108, 358-366.	1.9	6
38	A TEM study of thermally modified comet 81P/Wild 2 dust particles by interactions with the aerogel matrix during the Stardust capture process. <i>Meteoritics and Planetary Science</i> , 2008, 43, 97-120.	1.6	73
39	Characterization of a (021) twin in coesite using LACBED and precession electron diffraction. , 2008, , 803-804.		0
40	Large-angle convergent-beam electron diffraction (LACBED) characterization of (021) twinning in natural coesite. <i>European Journal of Mineralogy</i> , 2008, 20, 119-124.	1.3	7
41	Igneous Ca-rich pyroxene in comet 81P/Wild 2. <i>American Mineralogist</i> , 2008, 93, 1933-1936.	1.9	25
42	Dislocations and plasticity of experimentally deformed coesite. <i>European Journal of Mineralogy</i> , 2008, 20, 665-671.	1.3	3
43	Contribution of electron precession to the study of crystals displaying small symmetry departures. , 2008, , 211-212.		0
44	Precession Electron Diffraction for the characterization of twinning in pseudo-symmetrical crystals: case of coesite. , 2008, , 193-194.		0
45	TEM study of Comet Wild 2 pyroxene particles collected during the stardust mission. , 2008, , 823-824.		0
46	Comet 81P/Wild 2 Under a Microscope. <i>Science</i> , 2006, 314, 1711-1716.	12.6	848
47	Mineralogy and Petrology of Comet 81P/Wild 2 Nucleus Samples. <i>Science</i> , 2006, 314, 1735-1739.	12.6	589
48	Interpretation of unexpected rocking curve asymmetry in LACBED patterns of semiconductors. <i>Ultramicroscopy</i> , 2003, 96, 1-9.	1.9	4
49	Characterisation of implanted surface layers in ion-thinned semiconductors by transmission electron microscopy. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2003, 101, 133-136.	3.5	1
50	LACBED measurement of the chemical composition of a thin $\text{In}_x\text{Ga}_{1-x}\text{As}$ layer buried in a GaAs matrix. <i>Ultramicroscopy</i> , 2001, 89, 299-303.	1.9	6
51	Microstructure and composition of MgF ₂ optical coatings grown on Si substrate by PVD and IBS processes. <i>Thin Solid Films</i> , 2000, 360, 133-138.	1.8	37
52	Optical and microstructural properties of MgF ₂ UV coatings grown by ion beam sputtering process. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2000, 18, 2869-2876.	2.1	34
53	Surface relaxation of strained semiconductor heterostructures revealed by finite-element calculations and transmission electron microscopy. <i>Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties</i> , 1998, 78, 879-891.	0.6	14
54	Elastic misfit stress relaxation in $\text{In}_{0.25}\text{Ga}_{0.75}\text{As}$ layers grown under tension on $\text{InP}(001)$. <i>Journal of Crystal Growth</i> , 1997, 179, 331-338.	1.5	9