

# Damien Jacob

## List of Publications by Year in descending order

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54  
papers

2,262  
citations

471509

17  
h-index

233421

45  
g-index

58  
all docs

58  
docs citations

58  
times ranked

2071  
citing authors

#	ARTICLE	IF	CITATIONS
1	Comet 81P/Wild 2 Under a Microscope. <i>Science</i> , 2006, 314, 1711-1716.	12.6	848
2	Mineralogy and Petrology of Comet 81P/Wild 2 Nucleus Samples. <i>Science</i> , 2006, 314, 1735-1739.	12.6	589
3	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
4	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
5	Structure refinement from precession electron diffraction data. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2013, 69, 171-188.	0.3	69
6	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
7	Microstructure and composition of MgF <sub>2</sub> optical coatings grown on Si substrate by PVD and IBS processes. <i>Thin Solid Films</i> , 2000, 360, 133-138.	1.8	37
8	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
9	Optical and microstructural properties of MgF <sub>2</sub> 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
10	Nickeliferous pyrite tracks pervasive hydrothermal alteration in Martian regolith breccia: A study in <sc>NWA</sc> 7533. <i>Meteoritics and Planetary Science</i> , 2015, 50, 2099-2120.	1.6	32
11	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
12	Pyroxenes microstructure in comet 81P/Wild 2 terminal Stardust particles. <i>Meteoritics and Planetary Science</i> , 2009, 44, 1475-1488.	1.6	27
13	Igneous Ca-rich pyroxene in comet 81P/Wild 2. <i>American Mineralogist</i> , 2008, 93, 1933-1936.	1.9	25
14	In Situ Fe and S isotope analyses in pyrite from the 3.2-Å Ga Mendon Formation (Barberton Greenstone) Tj ETQq0 0 0 rgBT /Overlock 10 T	2.4	25
15	Mechanical twinning of monazite expels radiogenic lead. <i>Geology</i> , 2021, 49, 417-421.	4.4	21
16	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
17	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
18	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

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19	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
20	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
21	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
22	An efficient approach to characterize pseudo-merohedral twins by precession electron diffraction: Application to the LaGaO <sub>3</sub> perovskite. <i>Ultramicroscopy</i> , 2009, 109, 1282-1294.	1.9	13
23	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
24	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
25	A precession electron diffraction study of $\hat{I}\pm$ , $\hat{I}^2$ phases and Dauphin $\hat{C}$ twin in quartz. <i>Ultramicroscopy</i> , 2010, 110, 1166-1177.	1.9	11
26	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
27	Elastic misfit stress relaxation in In <sub>0.25</sub> Ga <sub>0.75</sub> As layers grown under tension on InP(0 0 1). <i>Journal of Crystal Growth</i> , 1997, 179, 331-338.	1.5	9
28	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
29	Monoclinic superstructure in orthorhombic Ce <sub>10</sub> W <sub>22</sub> O <sub>81</sub> from transmission electron microscopy. <i>Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials</i> , 2014, 70, 268-274.	1.1	8
30	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
31	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
32	Ordering state in orthopyroxene as determined by precession electron diffraction. <i>American Mineralogist</i> , 2013, 98, 1526-1534.	1.9	7
33	Fine-grained material encased in microtracks of Stardust samples. <i>Meteoritics and Planetary Science</i> , 2013, 48, 1607-1617.	1.6	7
34	LACBED measurement of the chemical composition of a thin In <sub>x</sub> Ga <sub>1-x</sub> As layer buried in a GaAs matrix. <i>Ultramicroscopy</i> , 2001, 89, 299-303.	1.9	6
35	Composition analysis of semiconductor quantum wells by energy filtered convergent-beam electron diffraction. <i>Ultramicroscopy</i> , 2008, 108, 358-366.	1.9	6
36	Lasnierite, (Ca,Sr)(Mg,Fe) <sub>2</sub> Al(PO <sub>4</sub> ) <sub>3</sub> , 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

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37	STEM-EELS Investigation of Planar Defects in Olivine in the Allende Meteorite. Minerals (Basel,) Tj ETQq1 1 0.784314 rgBT /Overlock 10 2.05		
38	Interpretation of unexpected rocking curve asymmetry in LACBED patterns of semiconductors. Ultramicroscopy, 2003, 96, 1-9.	1.9	4
39	Dislocations and plasticity of experimentally deformed coesite. European Journal of Mineralogy, 2008, 20, 665-671.	1.3	3
40	The state of order in Fe <sup>2+</sup> Al studied by precession electron diffraction. Philosophical Magazine Letters, 2011, 91, 54-60.	1.2	2
41	A <sup>3</sup> TEM study of exsolution in Ca <sup>2+</sup> rich pyroxenes from the Paris and Renazzo chondrites: Determination of type I chondrule cooling rates. Meteoritics and Planetary Science, 2018, 53, 482-492.	1.6	2
42	A Kinetic Study of Order-Disorder Transition in Ni <sup>2+</sup> Cr Based Alloys. Minerals, Metals and Materials Series, 2018, , 233-249.	0.4	2
43	A Kinetic Study of Order-Disorder Transition in Ni <sup>2+</sup> Cr Based Alloys. Minerals, Metals and Materials Series, 2019, , 233-249.	0.4	2
44	Characterisation of implanted surface layers in ion-thinned semiconductors by transmission electron microscopy. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2003, 101, 133-136.	3.5	1
45	Anhydrous Phase B: Transmission Electron Microscope Characterization and Elastic Properties. Geochemistry, Geophysics, Geosystems, 2019, 20, 4059-4072.	2.5	1
46	Characterization of a (021) twin in coesite using LACBED and precession electron diffraction. , 2008, , 803-804.		0
47	On the Use of Precession Electron Diffraction for Minerals Characterization: From Twinning Identification to Structure Refinement. Microscopy and Microanalysis, 2014, 20, 1684-1685.	0.4	0
48	Nanoscale structure refinement of pyroxenes using precession electron diffraction tomography. Acta Crystallographica Section A: Foundations and Advances, 2015, 71, s304-s305.	0.1	0
49	Accurate structure refinement from electron diffraction tomography data. Acta Crystallographica Section A: Foundations and Advances, 2015, 71, s53-s53.	0.1	0
50	Structure refinement against precession electron diffraction data. Acta Crystallographica Section A: Foundations and Advances, 2012, 68, s60-s60.	0.3	0
51	Accurate structure refinement from 3D electron diffraction data. Acta Crystallographica Section A: Foundations and Advances, 2014, 70, C374-C374.	0.1	0
52	Contribution of electron precession to the study of crystals displaying small symmetry departures. , 2008, , 211-212.		0
53	Precession Electron Diffraction for the characterization of twinning in pseudo-symmetrical crystals: case of coesite. , 2008, , 193-194.		0
54	TEM study of Comet Wild 2 pyroxene particles collected during the stardust mission. , 2008, , 823-824.		0