

Edouard Kaminski

List of Publications by Year in descending order

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65
papers

3,038
citations

172457

29
h-index

161849

54
g-index

65
all docs

65
docs citations

65
times ranked

2661
citing authors

#	ARTICLE	IF	CITATIONS
1	The chemical composition of the Earth: Enstatite chondrite models. <i>Earth and Planetary Science Letters</i> , 2010, 293, 259-268.	4.4	363
2	Turbulent entrainment in jets with arbitrary buoyancy. <i>Journal of Fluid Mechanics</i> , 2005, 526, 361-376.	3.4	239
3	The Geochemical Regimes of Piton de la Fournaise Volcano (Reunion) During the Last 530 000 Years. <i>Journal of Petrology</i> , 1997, 38, 171-201.	2.8	199
4	The route to self-similarity in turbulent jets and plumes. <i>Journal of Fluid Mechanics</i> , 2006, 547, 137.	3.4	157
5	A kinematic model for recrystallization and texture development in olivine polycrystals. <i>Earth and Planetary Science Letters</i> , 2001, 189, 253-267.	4.4	153
6	The size distribution of pyroclasts and the fragmentation sequence in explosive volcanic eruptions. <i>Journal of Geophysical Research</i> , 1998, 103, 29759-29779.	3.3	143
7	Timescales for the evolution of seismic anisotropy in mantle flow. <i>Geochemistry, Geophysics, Geosystems</i> , 2002, 3, 1-17.	2.5	134
8	Results of the eruptive column model inter-comparison study. <i>Journal of Volcanology and Geothermal Research</i> , 2016, 326, 2-25.	2.1	114
9	D-Rex, a program for calculation of seismic anisotropy due to crystal lattice preferred orientation in the convective upper mantle. <i>Geophysical Journal International</i> , 2004, 158, 744-752.	2.4	112
10	On the rise of turbulent plumes: Quantitative effects of variable entrainment for submarine hydrothermal vents, terrestrial and extra terrestrial explosive volcanism. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	82
11	Laminar starting plumes in high-Prandtl-number fluids. <i>Journal of Fluid Mechanics</i> , 2003, 478, 287-298.	3.4	76
12	A deep mantle origin for the primitive signature of ocean island basalt. <i>Nature Geoscience</i> , 2011, 4, 879-882.	12.9	75
13	On the dynamics of volcanic columns: A comparison of field data with a new model of negatively buoyant jets. <i>Journal of Volcanology and Geothermal Research</i> , 2008, 178, 94-103.	2.1	69
14	Lithosphere structure beneath the Phanerozoic intracratonic basins of North America. <i>Earth and Planetary Science Letters</i> , 2000, 178, 139-149.	4.4	63
15	Expansion and quenching of vesicular magma fragments in Plinian eruptions. <i>Journal of Geophysical Research</i> , 1997, 102, 12187-12203.	3.3	56
16	Seismic characterization of mantle flow in subduction systems: Can we resolve a hydrated mantle wedge?. <i>Earth and Planetary Science Letters</i> , 2006, 243, 632-649.	4.4	54
17	PSInSAR as a new tool to monitor pre-eruptive volcano ground deformation: Validation using GPS measurements on Piton de la Fournaise. <i>Geophysical Research Letters</i> , 2010, 37, .	4.0	54
18	Modeling olivine CPO evolution with complex deformation histories: Implications for the interpretation of seismic anisotropy in the mantle. <i>Geochemistry, Geophysics, Geosystems</i> , 2015, 16, 3436-3455.	2.5	52

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19	The rise and fall of turbulent fountains: a new model for improved quantitative predictions. <i>Journal of Fluid Mechanics</i> , 2010, 657, 265-284.	3.4	43
20	The effect of total grain-size distribution on the dynamics of turbulent volcanic plumes. <i>Earth and Planetary Science Letters</i> , 2014, 394, 124-134.	4.4	41
21	An experimental study of the surface thermal signature of hot subaerial isoviscous gravity currents: Implications for thermal monitoring of lava flows and domes. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	40
22	The influence of water on the development of lattice preferred orientation in olivine aggregates. <i>Geophysical Research Letters</i> , 2002, 29, 17-1.	4.0	38
23	Porous compaction in transient creep regime and implications for melt, petroleum, and CO ₂ circulation. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	37
24	Estimation of ash injection in the atmosphere by basaltic volcanic plumes: The case of the Eyjafjallajökull 2010 eruption. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	37
25	Rise of volcanic plumes to the stratosphere aided by penetrative convection above large lava flows. <i>Earth and Planetary Science Letters</i> , 2011, 301, 171-178.	4.4	36
26	Marginal stability of atmospheric eruption columns and pyroclastic flow generation. <i>Journal of Geophysical Research</i> , 2001, 106, 21785-21798.	3.3	34
27	A two-stage scenario for the formation of the Earth's mantle and core. <i>Earth and Planetary Science Letters</i> , 2013, 365, 97-107.	4.4	34
28	The Geochemical Regimes of Piton de la Fournaise Volcano (Reunion) During the Last 530 000 Years. <i>Journal of Petrology</i> , 1997, 38, 171-201.	2.8	34
29	Laboratory experiments of forced plumes in a density-stratified crossflow and implications for volcanic plumes. <i>Geophysical Research Letters</i> , 2014, 41, 8759-8766.	4.0	33
30	Low-Frequency Earthquakes and Pore Pressure Transients in Subduction Zones. <i>Geophysical Research Letters</i> , 2018, 45, 11,083.	4.0	29
31	Entrainment in plane turbulent pure plumes. <i>Journal of Fluid Mechanics</i> , 2014, 755, .	3.4	27
32	The recent Plinian explosive activity of Mt. Pelée volcano (Lesser Antilles): The P1 AD 1300 eruption. <i>Bulletin of Volcanology</i> , 2012, 74, 2187-2203.	3.0	26
33	Marginally stable recent Plinian eruptions of Mt. Pelée volcano (Lesser Antilles): the P2 AD 280 eruption. <i>Bulletin of Volcanology</i> , 2019, 81, 1.	3.0	23
34	Age-independent seismic anisotropy under oceanic plates explained by strain history in the asthenosphere. <i>Earth and Planetary Science Letters</i> , 2017, 460, 135-142.	4.4	20
35	Microwave-heating laboratory experiments for planetary mantle convection. <i>Journal of Fluid Mechanics</i> , 2015, 777, 50-67.	3.4	19
36	Earth's Uranium and Thorium content and geoneutrinos fluxes based on enstatite chondrites. <i>Earth and Planetary Science Letters</i> , 2014, 407, 1-8.	4.4	18

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37	An analogue study of the influence of solidification on the advance and surface thermal signature of lava flows. <i>Earth and Planetary Science Letters</i> , 2014, 396, 46-55.	4.4	16
38	Fully determined scaling laws for volumetrically heated convective systems, a tool for assessing habitability of exoplanets. <i>Physics of the Earth and Planetary Interiors</i> , 2017, 266, 18-28.	1.9	16
39	Early accretion of planetesimals unraveled by the thermal evolution of the parent bodies of magmatic iron meteorites. <i>Earth and Planetary Science Letters</i> , 2020, 548, 116469.	4.4	16
40	Combined effects of total grain-size distribution and crosswind on the rise of eruptive volcanic columns. <i>Journal of Volcanology and Geothermal Research</i> , 2016, 326, 103-113.	2.1	15
41	Interpretation of seismic anisotropy in terms of mantle flow when melt is present. <i>Geophysical Research Letters</i> , 2006, 33, .	4.0	14
42	Second-order model of entrainment in planar turbulent jets at low Reynolds number. <i>Physics of Fluids</i> , 2014, 26, 045110.	4.0	14
43	The timing and intensity of column collapse during explosive volcanic eruptions. <i>Earth and Planetary Science Letters</i> , 2015, 411, 208-217.	4.4	14
44	Fundamentals of laminar free convection in internally heated fluids at values of the Rayleigh-Roberts number up to. <i>Journal of Fluid Mechanics</i> , 2018, 846, 966-998.	3.4	14
45	A revisit of the role of gas entrapment on the stability conditions of explosive volcanic columns. <i>Journal of Volcanology and Geothermal Research</i> , 2018, 357, 349-361.	2.1	13
46	Impact of wind direction variability on hazard assessment in Martinique (Lesser Antilles): The example of the 13.5 th Bellefontaine Plinian eruption of Mount Pelée volcano. <i>Journal of Volcanology and Geothermal Research</i> , 2019, 381, 193-208.	2.1	13
47	Convection in an internally heated stratified heterogeneous reservoir. <i>Journal of Fluid Mechanics</i> , 2019, 870, 67-105.	3.4	13
48	Anisotropic rheology of a cubic medium and implications for geological materials. <i>Geophysical Journal International</i> , 2007, 170, 876-885.	2.4	11
49	Evidence of reactivation of a hydrothermal system from seismic anisotropy changes. <i>Nature Communications</i> , 2019, 10, 5278.	12.8	11
50	Transition from stable column to partial collapse during the 79 th P3 Plinian eruption of Mt. Pelée volcano (Lesser Antilles). <i>Journal of Volcanology and Geothermal Research</i> , 2020, 392, 106764.	2.1	11
51	Wind Entrainment in Jets with Reversing Buoyancy: Implications for Volcanic Plumes. <i>Journal of Geophysical Research: Solid Earth</i> , 2020, 125, e2020JB020136.	3.4	11
52	Microwave-based laboratory experiments for internally-heated mantle convection. <i>AIP Conference Proceedings</i> , 2013, . .	0.4	10
53	A fluid dynamics perspective on the interpretation of the surface thermal signal of lava flows. <i>Geological Society Special Publication</i> , 2016, 426, 243-256.	1.3	8
54	Structure of differentiated planetesimals: A chondritic fridge on top of a magma ocean. <i>Icarus</i> , 2022, 385, 115100.	2.5	8

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55	The influence of wind on the estimation of lava effusion rate from thermal remote-sensing. Journal of Volcanology and Geothermal Research, 2013, 264, 223-230.	2.1	7
56	Defining a proxy for the interpretation of seismic anisotropy in non-Newtonian mantle flows. Geophysical Research Letters, 2014, 41, 7065-7072.	4.0	7
57	The Earth's mantle in a microwave oven: thermal convection driven by a heterogeneous distribution of heat sources. Experiments in Fluids, 2017, 58, 1.	2.4	7
58	Transient convection experiments in internally-heated systems. MethodsX, 2021, 8, 101224.	1.6	7
59	The fate of particles in a volumetrically heated convective fluid at high Prandtl number. Journal of Fluid Mechanics, 2021, 929, .	3.4	6
60	Volcanic hazard assessment for tephra fallout in Martinique. Journal of Applied Volcanology, 2021, 10, .	2.0	5
61	The Composition of the Deep Earth. , 2015, , 303-328.		3
62	How to Detect Water in the Mantle Wedge of a Subduction Zone Using Seismic Anisotropy. Geophysical Research Letters, 2018, 45, 13,298.	4.0	3
63	Microwave-based, internally-heated convection: New perspectives for the heterogeneous case. AIP Conference Proceedings, 2015, , .	0.4	1
64	Eruptive cycles inferred from ground deformation at Piton de La Fournaise - a case study for the Globvolcano project. , 2008, , .		0
65	Les Éruptions volcaniques « explosives » : des grandes aux petites échelles. Bulletin De La Société Française De Physique, 2005, , 5-10.	0.0	0