

Richard D Law

List of Publications by Year in descending order

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98
papers

5,449
citations

94433

37
h-index

82547

72
g-index

101
all docs

101
docs citations

101
times ranked

2555
citing authors

#	ARTICLE	IF	CITATIONS
1	Strain, deformation temperatures and vorticity of flow at the top of the Greater Himalayan Slab, Everest Massif, Tibet. <i>Journal of the Geological Society</i> , 2004, 161, 305-320.	2.1	351
2	The structural geometry, metamorphic and magmatic evolution of the Everest massif, High Himalaya of Nepal—South Tibet. <i>Journal of the Geological Society</i> , 2003, 160, 345-366.	2.1	306
3	Deformation thermometry based on quartz c-axis fabrics and recrystallization microstructures: A review. <i>Journal of Structural Geology</i> , 2014, 66, 129-161.	2.3	304
4	Defining the Himalayan Main Central Thrust in Nepal. <i>Journal of the Geological Society</i> , 2008, 165, 523-534.	2.1	276
5	Channel flow, ductile extrusion and exhumation in continental collision zones: an introduction. <i>Geological Society Special Publication</i> , 2006, 268, 1-23.	1.3	257
6	Coesite in Himalayan eclogite and implications for models of India-Asia collision. <i>Geology</i> , 2001, 29, 435.	4.4	243
7	Strain path partitioning within thrust sheets: microstructural and petrofabric evidence from the Moine Thrust zone at Loch Eriboll, northwest Scotland. <i>Journal of Structural Geology</i> , 1984, 6, 477-497.	2.3	210
8	Multiscale magmatic cyclicity, duration of pluton construction, and the paradoxical relationship between tectonism and plutonism in continental arcs. <i>Tectonophysics</i> , 2011, 500, 20-33.	2.2	203
9	Water-weakening of sandstone and quartzite deformed at various stress and strain rates. <i>International Journal of Rock Mechanics and Mining Sciences</i> , 1991, 28, 431-439.	0.0	131
10	Crystallographic fabrics: a selective review of their applications to research in structural geology. <i>Geological Society Special Publication</i> , 1990, 54, 335-352.	1.3	129
11	Simple shear deformation and quartz crystallographic fabrics: a possible natural example from the Torridon area of NW Scotland. <i>Journal of Structural Geology</i> , 1990, 12, 29-45.	2.3	125
12	The Miocene elevation of Mount Everest. <i>Geology</i> , 2013, 41, 799-802.	4.4	123
13	Kinematic and tectonic significance of microstructures and crystallographic fabrics within quartz mylonites from the Assynt and Eriboll regions of the Moine thrust zone, NW Scotland. <i>Transactions of the Royal Society of Edinburgh: Earth Sciences</i> , 1986, 77, 99-125.	0.7	114
14	Structural insights into the early stages of exhumation along an orogen-scale detachment: The South Tibetan Detachment System, Dzakaa Chu section, Eastern Himalaya. <i>Journal of Structural Geology</i> , 2007, 29, 1781-1797.	2.3	112
15	Deformation temperatures and flow vorticities near the base of the Greater Himalayan Series, Sutlej Valley and Shimla Klippe, NW India. <i>Journal of Structural Geology</i> , 2013, 54, 21-53.	2.3	108
16	Telescoping of isotherms beneath the South Tibetan Detachment System, Mount Everest Massif. <i>Journal of Structural Geology</i> , 2011, 33, 1569-1594.	2.3	106
17	The Rigid Grain Net (RGN): An alternative method for estimating mean kinematic vorticity number (W_m). <i>Journal of Structural Geology</i> , 2007, 29, 411-421.	2.3	104
18	D paths of Everest Series schist, Nepal. <i>Journal of Metamorphic Geology</i> , 2008, 26, 717-739.	3.4	102

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19	Unusual transition in quartzite dislocation creep regimes and crystal slip systems in the aureole of the Eureka Valley "Joshua Flat" Beer Creek pluton, California: a case for anhydrous conditions created by decarbonation reactions. <i>Tectonophysics</i> , 2004, 384, 209-231.	2.2	99
20	Internal structure and emplacement of the Papoose Flat pluton: An integrated structural, petrographic, and magnetic susceptibility study. <i>Bulletin of the Geological Society of America</i> , 2001, 113, 976-995.	3.3	96
21	Heterogeneous deformation and quartz crystallographic fabric transitions: natural examples from the moine thrust zone at the stack of glencoul, northern assynt. <i>Journal of Structural Geology</i> , 1987, 9, 819-833.	2.3	94
22	Relationships between strain and quartz crystallographic fabrics in the Roche Maurice quartzites of Plougastel, western Brittany. <i>Journal of Structural Geology</i> , 1986, 8, 493-515.	2.3	88
23	Crustal structure, restoration and evolution of the Greater Himalaya in Nepal-South Tibet: implications for channel flow and ductile extrusion of the middle crust. <i>Geological Society Special Publication</i> , 2006, 268, 355-378.	1.3	81
24	The influence of crystallographic orientation and grain boundary migration on microstructural and textural evolution in an S-C mylonite. <i>Tectonophysics</i> , 1987, 135, 155-169.	2.2	79
25	Cataclastic deformation mechanism for the development of core-mantle structures in amphibole. <i>Geology</i> , 1992, 20, 455.	4.4	75
26	Structural evolution and vorticity of flow during extrusion and exhumation of the Greater Himalayan Slab, Mount Everest Massif, Tibet/Nepal: implications for orogen-scale flow partitioning. <i>Geological Society Special Publication</i> , 2006, 268, 379-413.	1.3	72
27	Rongbuk re-visited: Geochronology of leucogranites in the footwall of the South Tibetan Detachment System, Everest Region, Southern Tibet. <i>Lithos</i> , 2015, 227, 94-106.	1.4	69
28	Paleozoic deformation in the Sierras de Cordoba and Sierra de Las Minas, eastern Sierras Pampeanas, Argentina. <i>Journal of South American Earth Sciences</i> , 2003, 15, 749-764.	1.4	65
29	Deformation path partitioning within the transpressional White Mountain shear zone, California and Nevada. <i>Journal of Structural Geology</i> , 2007, 29, 583-599.	2.3	56
30	Conditions of contact metamorphism, Papoose Flat Pluton, eastern California, USA: implications for cooling and strain histories. <i>Journal of Metamorphic Geology</i> , 1995, 13, 627-643.	3.4	49
31	Laccolith-like emplacement model for the Papoose Flat pluton based on porphyroblast-matrix analysis. <i>Bulletin of the Geological Society of America</i> , 1998, 110, 0096.	3.3	49
32	Microstructural and crystal fabric evolution during shear zone formation. <i>Journal of Structural Geology</i> , 1992, 14, 1079-1100.	2.3	48
33	Thermo-kinematic evolution of the Annapurna-Dhaulagiri Himalaya, central Nepal: The Composite Orogenic System. <i>Geochemistry, Geophysics, Geosystems</i> , 2016, 17, 1511-1539.	2.5	47
34	Deformation temperatures, vorticity of flow, and strain in the Moine thrust zone and Moine nappe: Reassessing the tectonic evolution of the Scandian foreland "hinterland transition zone. <i>Journal of Structural Geology</i> , 2010, 32, 920-940.	2.3	46
35	Kinematics and vorticity of flow associated with post-collisional oblique transpression in the Variscan Inner Zone of northern Sardinia (Italy). <i>Journal of Structural Geology</i> , 2009, 31, 1458-1471.	2.3	42
36	Mid-crustal deformation of the Annapurna-Dhaulagiri Himalaya, central Nepal: An atypical example of channel flow during the Himalayan orogeny. , 2016, 12, 985-1015.		40

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37	Thermal structure and tectonic evolution of the Scandian orogenic wedge, <sc>S</sc>cottish Caledonides: integrating geothermometry, deformation temperatures and conceptual kinematic-thermal models. <i>Journal of Metamorphic Geology</i> , 2013, 31, 813-842.	3.4	39
38	Extensional origin of ductile fabrics in the Schist Belt, Central Brooks Range, Alaska. I. Geologic and structural studies. <i>Journal of Structural Geology</i> , 1994, 16, 899-918.	2.3	37
39	Microstructures and crystal fabrics of the Moine Thrust zone and Moine Nappe: history of research and changing tectonic interpretations. <i>Geological Society Special Publication</i> , 2010, 335, 443-503.	1.3	35
40	Extensional origin of ductile fabrics in the Schist Belt, Central Brooks Range, Alaska. II. Microstructural and petrofabric evidence. <i>Journal of Structural Geology</i> , 1994, 16, 919-940.	2.3	33
41	The Papoose Flat Pluton of eastern California: a reassessment of its emplacement history in the light of new microstructural and crystallographic fabric observations. <i>Earth and Environmental Science Transactions of the Royal Society of Edinburgh</i> , 1992, 83, 361-375.	0.3	30
42	Moine Thrust zone mylonites at the Stack of Glencoul: II - results of vorticity analyses and their tectonic significance. <i>Geological Society Special Publication</i> , 2010, 335, 579-602.	1.3	30
43	Crystal fabric development and slip systems in a quartz mylonite: an approach via transmission electron microscopy and viscoplastic self-consistent modelling. <i>Geological Society Special Publication</i> , 2011, 360, 151-174.	1.3	30
44	Prograde evolution of the Scottish Caledonides and tectonic implications. <i>Lithos</i> , 2015, 224-225, 160-178.	1.4	30
45	Transpressive Deformation in the Southern European Variscan Belt: New Insights From the Aiguilles Rouges Massif (Western Alps). <i>Tectonics</i> , 2020, 39, e2020TC006153.	2.8	30
46	Deformation temperatures, vorticity of flow and strain symmetry in the Loch Eriboll mylonites, NW Scotland: implications for the kinematic and structural evolution of the northernmost Moine Thrust zone. <i>Geological Society Special Publication</i> , 2010, 335, 623-662.	1.3	29
47	Comparing Tibet-Himalayan and Caledonian crustal architecture, evolution and mountain building processes. <i>Geological Society Special Publication</i> , 2010, 335, 207-232.	1.3	29
48	Modeling prograde TiO ₂ activity and its significance for Ti-in-quartz thermobarometry of pelitic metamorphic rocks. <i>Contributions To Mineralogy and Petrology</i> , 2015, 169, 1.	3.1	29
49	Ti resetting in quartz during dynamic recrystallization: Mechanisms and significance. <i>American Mineralogist</i> , 2014, 99, 2025-2030.	1.9	28
50	Orogen-parallel deformation of the Himalayan midcrust: Insights from structural and magnetic fabric analyses of the Greater Himalayan Sequence, Annapurna-Dhaulagiri Himalaya, central Nepal. <i>Tectonics</i> , 2016, 35, 2515-2537.	2.8	28
51	Geology of the Dhaulagiri-Annapurna-Manaslu Himalaya, Western Region, Nepal. 1:200,000. <i>Journal of Maps</i> , 2016, 12, 100-110.	2.0	28
52	Infiltration of meteoric water in the South Tibetan Detachment (Mount Everest, Himalaya): When and why?. <i>Tectonics</i> , 2017, 36, 690-713.	2.8	28
53	Moine Thrust zone mylonites at the Stack of Glencoul: I - microstructures, strain and influence of recrystallization on quartz crystal fabric development. <i>Geological Society Special Publication</i> , 2010, 335, 543-577.	1.3	27
54	A new technique for quantifying symmetry and opening angles in quartz c-axis pole figures: Implications for interpreting the kinematic and thermal properties of rocks. <i>Journal of Structural Geology</i> , 2018, 112, 1-6.	2.3	23

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55	Discriminatory petrofabric analysis of quartz rocks using SEM electron channelling. <i>Tectonophysics</i> , 1987, 135, 243-249.	2.2	21
56	Effect of finite strain on clast-based vorticity gauges. <i>Journal of Structural Geology</i> , 2011, 33, 1178-1192.	2.3	21
57	Thermal evolution of the Scandian hinterland, Naver nappe, northern Scotland. <i>Journal of the Geological Society</i> , 2019, 176, 669-688.	2.1	21
58	Emplacement of the Santa Rita Flat pluton as a pluton-scale saddle reef. <i>Geology</i> , 2000, 28, 1115.	4.4	20
59	Formation, evolution, and inversion of the middle Tertiary Diligencia basin, Orocochia Mountains, southern California. <i>Bulletin of the Geological Society of America</i> , 2001, 113, 196-221.	3.3	16
60	Forceful emplacement of the Eureka Valley "Joshua Flat" Beer Creek composite pluton into a structural basin in eastern California; internal structure and wall rock deformation. <i>Tectonophysics</i> , 2013, 608, 753-773.	2.2	16
61	The Tarskavaig Nappe of Skye, northwest Scotland: a re-examination of the fabrics and their kinematic significance. <i>Geological Magazine</i> , 1987, 124, 231-248.	1.5	15
62	A spherical electron channelling pattern map for use in quartz petrofabric analysis: correction and verification. <i>Journal of Structural Geology</i> , 1987, 9, 251-253.	2.3	15
63	Thermobarometry of the Moine and Sgurr Beag thrust sheets, northern Scotland. <i>Journal of Structural Geology</i> , 2018, 113, 10-32.	2.3	15
64	Significance of "stretched" mineral inclusions for reconstructing P-T exhumation history. <i>Contributions To Mineralogy and Petrology</i> , 2015, 169, 1.	3.1	14
65	Orientation of specimens: Essential data for all fields of geology. <i>Geology</i> , 1987, 15, 829.	4.4	13
66	An Overview of Paleozoic-Mesozoic Structures Developed in the Central White-Inyo Range, Eastern California. <i>International Geology Review</i> , 1998, 40, 245-256.	2.1	13
67	Synchrotron FTIR imaging of OH in quartz mylonites. <i>Solid Earth</i> , 2017, 8, 1025-1045.	2.8	12
68	Structural and thermal evolution of the South Tibetan Detachment shear zone in the Mt Everest region, from the 1933 sample collection of L. R. Wager. <i>Geological Society Special Publication</i> , 2019, 478, 335-372.	1.3	12
69	Continental tectonics and mountain building. The legacy of Peach and Horne: an introduction. <i>Geological Society Special Publication</i> , 2010, 335, 1-5.	1.3	12
70	The upper Mississippian Bluefield Formation in the Central Appalachian basin: A hierarchical sequence-stratigraphic record of a greenhouse to icehouse transition. <i>Sedimentary Geology</i> , 2006, 192, 99-122.	2.1	11
71	Unravelling the development of regional-scale shear zones by a multidisciplinary approach: The case study of the Ferriere-Mollières Shear Zone (Argentera Massif, Western Alps). <i>Journal of Structural Geology</i> , 2021, 149, 104399.	2.3	11
72	Strain memory of 2D and 3D rigid inclusion populations in viscous flows " What is clast SPO telling us?. <i>Journal of Structural Geology</i> , 2014, 68, 347-363.	2.3	10

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73	Crystallographic fabrics and deformation histories. <i>Journal of the Geological Society</i> , 1987, 144, 675-678.	2.1	9
74	Relationships between the Loch Ailsh and Borralan alkaline intrusions and thrusting in the Moine Thrust zone, southern Assynt culmination, NW Scotland. <i>Geological Society Special Publication</i> , 2010, 335, 383-404.	1.3	9
75	Interplay Between Crustal Scale Thrusting, High Metamorphic Heating Rates, and the Development of Inverted Thermal-Metamorphic Gradients: Numerical Models and Examples From the Caledonides of Northern Scotland. <i>Tectonics</i> , 2021, 40, e2021TC006716.	2.8	9
76	Water loss during dynamic recrystallization of Moine thrust quartzites, northwest Scotland. <i>Geology</i> , 2020, 48, 557-561.	4.4	8
77	Quantifying displacement on the South Tibetan Detachment normal fault, Everest massif, and the timing of crustal thickening and uplift in the Himalaya and South Tibet. <i>Journal of Nepal Geological Society</i> , 0, 26, .	0.2	8
78	144. Quartz Mylonites from the Moine Thrust Zone at the Stack of Glencoul, Northwest Scotland. , 1998, , 490-493.		7
79	Growth and fluid-assisted alteration of accessory phases before, during and after Rodinia breakup: U-Pb geochronology from the Moine Supergroup rocks of northern Scotland. <i>Precambrian Research</i> , 2021, 355, 106089.	2.7	7
80	145. Quartz Mylonites from the Moine Thrust Zone in Southern Assynt, Northwest Scotland. , 1998, , 494-495.		6
81	Predicting seismic properties from three-dimensional microstructures: a new look at an old quartzite. <i>Geological Society Special Publication</i> , 2010, 335, 603-622.	1.3	6
82	Rapid cooling during late-stage orogenesis and implications for the collapse of the Scandian retrowedge, northern Scotland. <i>Journal of the Geological Society</i> , 2021, 178, .	2.1	6
83	Tectonic Transport Directions, Shear Senses and Deformation Temperatures Indicated by Quartz c-Axis Fabrics and Microstructures in a NW-SE Transect across the Moine and Sgurr Beag Thrust Sheets, Caledonian Orogen of Northern Scotland. <i>Geosciences (Switzerland)</i> , 2021, 11, 411.	2.2	6
84	Evaluating kinematic displacement rate effects on transient thermal processes in thrust belts using coupled thermomechanical finite-element models. , 2017, , .		5
85	Papoose Flat, Eureka Valley "Joshua Flat" Beer Creek, and Sage Hen Flat plutons: Examples of rising, sinking, and cookie-cutter plutons in the central White "Inyo Range, eastern California. , 2000, , 189-204.		5
86	Garnet morphology distribution in the northern part of the Moine Supergroup, Scottish Caledonides. <i>Journal of Metamorphic Geology</i> , 2017, 35, 77-94.	3.4	5
87	Crystallographically controlled void space at grain boundaries in the Harkless quartzite. <i>Journal of Structural Geology</i> , 2021, 143, 104235.	2.3	5
88	A refined approach for quantitative kinematic vorticity number estimation using microstructures. <i>Journal of Structural Geology</i> , 2021, 153, 104459.	2.3	5
89	Telescoping of isotherms beneath the South Tibetan Detachment, Mount Everest Massif: implications for magnitude of internal flow during extrusion of the Greater Himalayan Slab. <i>Himalayan Journal of Sciences</i> , 2008, 5, 86-87.	0.3	5
90	Two-phase exhumation of ultra high-pressure and medium-pressure Indian Plate rocks from the Pakistan Himalaya. <i>Geological Society Special Publication</i> , 2007, 272, 155-185.	1.3	4

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91	The Papoose Flat Pluton of eastern California: a reassessment of its emplacement history in the light of new microstructural and crystallographic fabric observations. Special Paper of the Geological Society of America, 1992, , 361-376.	0.5	3
92	Texture Determination Via SEM Electron Channelling. Textures and Microstructures, 1991, 14, 213-218.	0.2	2
93	An Evaluation of Erosionalâ€œGeodynamic Thresholds for Rapid Orogenic Denudation. Journal of Geophysical Research: Solid Earth, 2021, 126, .	3.4	1
94	Quartz inclusions in garnet: Time capsules of early mountain building. , 2017, , .		0
95	Preferred orientation in deformed metals and rocks: An introduction to modern texture analysis. Journal of Structural Geology, 1988, 10, 133-134.	2.3	0
96	Micromechanics of Formation of a Quartzofeldspathic Shear Zone. Textures and Microstructures, 1991, 14, 333-338.	0.2	0
97	Emplacement of the Santa Rita Flat pluton as a pluton-scale saddle reef. Geology, 2000, 28, 1115-1118.	4.4	0
98	Linkages and feedbacks in orogenic systems: An introduction. , 0, , .		0