

John P Platt

List of Publications by Year in descending order

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110
papers

10,024
citations

44042

48
h-index

33869

99
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126
all docs

126
docs citations

126
times ranked

4606
citing authors

#	ARTICLE	IF	CITATIONS
1	Dynamics of orogenic wedges and the uplift of high-pressure metamorphic rocks. <i>Bulletin of the Geological Society of America</i> , 1986, 97, 1037.	1.6	1,129
2	Extensional collapse of thickened continental lithosphere: A working hypothesis for the Alboran Sea and Gibraltar arc. <i>Geology</i> , 1989, 17, 540.	2.0	712
3	Extensional structures in anisotropic rocks. <i>Journal of Structural Geology</i> , 1980, 2, 397-410.	1.0	593
4	Dating high-grade metamorphism—constraints from rare-earth elements in zircon and garnet. <i>Contributions To Mineralogy and Petrology</i> , 2003, 145, 61-74.	1.2	452
5	Exhumation of high-pressure rocks: a review of concepts and processes. <i>Terra Nova</i> , 1993, 5, 119-133.	0.9	445
6	Magmatism Associated with Orogenic Collapse of the Betic-Alboran Domain, SE Spain. <i>Journal of Petrology</i> , 1999, 40, 1011-1036.	1.1	274
7	Late orogenic extension of the Betic Cordillera and the Alboran Domain: A lithospheric view. <i>Tectonics</i> , 1995, 14, 786-803.	1.3	237
8	The Betic-Rif Arc and Its Orogenic Hinterland: A Review. <i>Annual Review of Earth and Planetary Sciences</i> , 2013, 41, 313-357.	4.6	202
9	Franciscan subduction off to a slow start: evidence from high-precision Lu–Hf garnet ages on high grade-blocks. <i>Earth and Planetary Science Letters</i> , 2004, 225, 147-161.	1.8	190
10	Secondary cleavages in ductile shear zones. <i>Journal of Structural Geology</i> , 1984, 6, 439-442.	1.0	187
11	Thermal evolution, rate of exhumation, and tectonic significance of metamorphic rocks from the floor of the Alboran extensional basin, western Mediterranean. <i>Tectonics</i> , 1998, 17, 671-689.	1.3	184
12	A naturally constrained stress profile through the middle crust in an extensional terrane. <i>Earth and Planetary Science Letters</i> , 2011, 303, 181-192.	1.8	178
13	Kinematics of the Alpine arc and the motion history of Adria. <i>Nature</i> , 1989, 337, 158-161.	13.7	174
14	Large-scale sediment underplating in the Makran accretionary prism, southwest Pakistan. <i>Geology</i> , 1985, 13, 507.	2.0	170
15	Structures and fabrics in a crustal-scale shear zone, Betic Cordillera, SE Spain. <i>Journal of Structural Geology</i> , 1986, 8, 15-33.	1.0	168
16	Lithosphere structure underneath the Tibetan Plateau inferred from elevation, gravity and geoid anomalies. <i>Earth and Planetary Science Letters</i> , 2008, 267, 276-289.	1.8	167
17	Grainsize evolution in ductile shear zones: Implications for strain localization and the strength of the lithosphere. <i>Journal of Structural Geology</i> , 2011, 33, 537-550.	1.0	164
18	The ultimate arc: Differential displacement, oroclinal bending, and vertical axis rotation in the External Betic-Rif arc. <i>Tectonics</i> , 2003, 22, n/a-n/a.	1.3	162

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19	Simultaneous extensional exhumation across the Alboran Basin: Implications for the causes of late orogenic extension. <i>Geology</i> , 2003, 31, 251.	2.0	158
20	Metamorphic and deformational processes in the Franciscan Complex, California: Some insights from the Catalina Schist terrane. <i>Bulletin of the Geological Society of America</i> , 1975, 86, 1337.	1.6	143
21	Early Miocene continental subduction and rapid exhumation in the western Mediterranean. <i>Geology</i> , 2006, 34, 981.	2.0	133
22	Metamorphic core complexes: windows into the mechanics and rheology of the crust. <i>Journal of the Geological Society</i> , 2015, 172, 9-27.	0.9	116
23	Early Miocene high-temperature metamorphism and rapid exhumation in the Betic Cordillera (Spain): evidence from U–Pb zircon ages. <i>Earth and Planetary Science Letters</i> , 1999, 171, 591-605.	1.8	114
24	Timing of tectonic events in the Alpujarride Complex, Betic Cordillera, southern Spain. <i>Journal of the Geological Society</i> , 2005, 162, 451-462.	0.9	113
25	Plate movements, ductile deformation and geochronology of the Sanbagawa belt, SW Japan: tectonic significance of 89Ar–88Ar/40Ar–39Ar and 40Ar–39Ar/40Ar ages. <i>Journal of Metamorphic Geology</i> , 2009, 27, 93-105.	1.6	102
26	Mechanics of oblique convergence. <i>Journal of Geophysical Research</i> , 1993, 98, 16239-16256.	3.3	98
27	Sense of nappe emplacement from quartz c-axis fabrics; an example from the Betic Cordilleras (Spain). <i>Earth and Planetary Science Letters</i> , 1982, 59, 208-215.	1.8	94
28	Progressive refolding in ductile shear zones. <i>Journal of Structural Geology</i> , 1983, 5, 619-622.	1.0	92
29	Uncertainties in slip-rate estimates for the Mission Creek strand of the southern San Andreas fault at Biskra Palms Oasis, southern California. <i>Bulletin of the Geological Society of America</i> , 2010, 122, 1360-1377.	1.6	92
30	Brittle faults are weak, yet the ductile middle crust is strong: Implications for lithospheric mechanics. <i>Geophysical Research Letters</i> , 2014, 41, 8067-8075.	1.5	92
31	Attenuation and excision of a crustal section during extensional exhumation: the Carratraca Massif, Betic Cordillera, southern Spain. <i>Journal of the Geological Society</i> , 1999, 156, 149-162.	0.9	86
32	The structure and tectonic evolution of the Aguilón fold-nappe, Sierra Alhamilla, Betic Cordilleras, SE Spain. <i>Journal of Structural Geology</i> , 1983, 5, 519-538.	1.0	82
33	The Malaguide-Alpujarride boundary: a major extensional contact in the Internal Zone of the eastern Betic Cordillera, SE Spain. <i>Journal of Structural Geology</i> , 1995, 17, 1655-1671.	1.0	79
34	Slip vectors and fault mechanics in the Makran Accretionary Wedge, southwest Pakistan. <i>Journal of Geophysical Research</i> , 1988, 93, 7955-7973.	3.3	76
35	Petrological and Structural Evolution of High-Grade Metamorphic Rocks from the Floor of the Alboran Sea Basin, Western Mediterranean. <i>Journal of Petrology</i> , 1999, 40, 21-60.	1.1	74
36	Palaeomagnetic rotations in the eastern Betic Cordillera, southern Spain. <i>Earth and Planetary Science Letters</i> , 1993, 119, 225-241.	1.8	69

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37	The mechanics of frontal imbrication: a first-order analysis. <i>International Journal of Earth Sciences</i> , 1988, 77, 577-589.	0.9	66
38	Why are there no clockwise rotations along the North Anatolian Fault Zone?. <i>Journal of Geophysical Research</i> , 1994, 99, 21705-21715.	3.3	65
39	Lithospheric shear zones as constant stress experiments. <i>Geology</i> , 2011, 39, 127-130.	2.0	65
40	Rheology of two-phase systems: A microphysical and observational approach. <i>Journal of Structural Geology</i> , 2015, 77, 213-227.	1.0	63
41	Kinematic and thermal evolution during two-stage exhumation of a Mediterranean subduction complex. <i>Tectonics</i> , 2012, 31, .	1.3	62
42	Archaean tectonics in the Agnew supracrustal belt, Western Australia. <i>Precambrian Research</i> , 1978, 7, 3-30.	1.2	60
43	Origin of the western Subbetic arc (South Spain): palaeomagnetic and structural evidence. <i>Journal of Structural Geology</i> , 1995, 17, 765-775.	1.0	59
44	Rheological evolution of a Mediterranean subduction complex. <i>Journal of Structural Geology</i> , 2013, 54, 136-155.	1.0	57
45	Palaeomagnetic rotations and fault kinematics in the Rif Arc of Morocco. <i>Journal of the Geological Society</i> , 1993, 150, 707-718.	0.9	53
46	From orogenic hinterlands to Mediterranean-style back-arc basins: a comparative analysis. <i>Journal of the Geological Society</i> , 2007, 164, 297-311.	0.9	52
47	Influence of mantle dynamics on the topographic evolution of the Tibetan Plateau: Results from numerical modeling. <i>Tectonics</i> , 2006, 25, n/a-n/a.	1.3	49
48	Thrust mechanics in highly overpressured accretionary wedges. <i>Journal of Geophysical Research</i> , 1990, 95, 9025-9034.	3.3	47
49	Deep structure of lithospheric fault zones. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	1.5	46
50	Archaean greenstone belts: A structural test of tectonic hypothesis. <i>Tectonophysics</i> , 1980, 65, 127-150.	0.9	45
51	Emplacement of a fold-nappe, Betic orogen, southern Spain. <i>Geology</i> , 1982, 10, 97.	2.0	42
52	Footwall dip of a core complex detachment fault: thermobarometric constraints from the northern Snake Range (Basin and Range, USA). <i>Journal of Metamorphic Geology</i> , 2010, 28, 997-1020.	1.6	42
53	Origin of Franciscan blueschist-bearing melange at San Simeon, central California coast. <i>International Geology Review</i> , 2015, 57, 843-853.	1.1	42
54	Where is the real transform boundary in California?. <i>Geochemistry, Geophysics, Geosystems</i> , 2010, 11, .	1.0	41

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55	Decompression and high-temperature "low-pressure metamorphism in the exhumed floor of an extensional basin, Alboran Sea, western Mediterranean. <i>Geology</i> , 1996, 24, 447.	2.0	39
56	Rheology and stress in subduction zones around the aseismic/seismic transition. <i>Progress in Earth and Planetary Science</i> , 2018, 5, .	1.1	39
57	Large clockwise rotations in an extensional allochthon, Alboran Domain (southern Spain). <i>Journal of the Geological Society</i> , 2000, 157, 1187-1197.	0.9	38
58	Structural history of high-pressure metamorphic rocks in the southern vanoise massif, french alps, and their relation to alpine tectonic events. <i>Journal of Structural Geology</i> , 1985, 7, 19-35.	1.0	37
59	The internal-external zone boundary in the eastern Betic Cordillera, SE Spain. <i>Journal of Structural Geology</i> , 1994, 16, 175-188.	1.0	36
60	Influence of shear heating on microstructurally defined plate boundary shear zones. <i>Journal of Structural Geology</i> , 2015, 79, 80-89.	1.0	34
61	What Controls the Seismogenic Plate Interface in Subduction Zones?. <i>Geophysical Monograph Series</i> , 2013, , 105-111.	0.1	33
62	A Thermotectonic Model for Preservation of Ultrahigh-Pressure Phases in Metamorphosed Continental Crust. <i>Geophysical Monograph Series</i> , 2013, , 171-178.	0.1	31
63	Budget of crustal shortening and subduction of continental crust in the Alps. <i>Tectonics</i> , 1991, 10, 231-244.	1.3	29
64	A zone of mylonite and related ductile deformation beneath the alpujarride nappe complex, betic cordilleras, S. Spain. <i>Geologische Rundschau: Zeitschrift Fur Allgemeine Geologie</i> , 1984, 73, 773-785.	1.3	28
65	Unidirectional slip vectors in the western Betic Cordillera: implications for the formation of the Gibraltar arc. <i>Journal of the Geological Society</i> , 1998, 155, 193-207.	0.9	28
66	Thrusting and backthrusting in the Briançonnais domain of the western Alps. <i>Geological Society Special Publication</i> , 1989, 45, 135-152.	0.8	25
67	Gravitational and tectonic forces controlling postcollisional deformation and the present-day stress field of the Alps: Constraints from numerical modeling. <i>Tectonics</i> , 2005, 24, n/a-n/a.	1.3	25
68	Zipper junctions: A new approach to the intersections of conjugate strike-slip faults. <i>Geology</i> , 2016, 44, 795-798.	2.0	25
69	Shear zone junctions: Of zippers and freeways. <i>Journal of Structural Geology</i> , 2017, 95, 188-202.	1.0	25
70	Calibrating the bulk rheology of active obliquely convergent thrust belts and forearc wedges from surface profiles and velocity distributions. <i>Tectonics</i> , 2000, 19, 529-548.	1.3	24
71	Internal structure of a collapsed terrain. <i>Tectonophysics</i> , 2004, 385, 85-104.	0.9	23
72	Evidence for active subduction beneath Gibraltar: Comment and Reply. <i>Geology</i> , 2003, 31, e22-e22.	2.0	22

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73	A structural and palaeomagnetic study of a section through the eastern Subbetic, Southern Spain. <i>Journal of the Geological Society</i> , 1994, 151, 659-668.	0.9	21
74	Constraints on early Franciscan subduction rates from 2-D thermal modeling. <i>Earth and Planetary Science Letters</i> , 2011, 312, 69-79.	1.8	21
75	Structural and rheological evolution of the Laramide subduction channel in southern California. <i>Solid Earth</i> , 2017, 8, 379-403.	1.2	21
76	Rheological transitions in the middle crust: insights from Cordilleran metamorphic core complexes. <i>Solid Earth</i> , 2017, 8, 199-215.	1.2	20
77	Subduction, accretion, and exhumation of coherent Franciscan blueschist-facies rocks, northern Coast Ranges, California. <i>Lithosphere</i> , 2018, 10, 301-326.	0.6	20
78	Kinematics of a twisted core complex: Oblique axis rotation in an extended terrane (Betic Cordillera, Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 382	1.3	19
79	The Deep Structure and Rheology of a Plate Boundary-Scale Shear Zone: Constraints from an Exhumed Caledonian Shear Zone, NW Scotland. <i>Lithosphere</i> , 2020, 2020, .	0.6	19
80	Opposing shear senses in a subdetachment mylonite zone: Implications for core complex mechanics. <i>Tectonics</i> , 2010, 29, n/a-n/a.	1.3	18
81	Stress dependence of microstructures in experimentally deformed calcite. <i>Journal of Structural Geology</i> , 2017, 105, 80-87.	1.0	18
82	A new structural and kinematic framework for the Alborán Domain (Beticâ€“Rif arc, western) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 382	0.9	18
83	Possible Strike-Slip Faulting in the Southern California Borderland: Reply. <i>Geology</i> , 1975, 3, 3.	2.0	17
84	The mechanics of continental transforms: An alternative approach with applications to the San Andreas system and the tectonics of California. <i>Earth and Planetary Science Letters</i> , 2008, 274, 380-391.	1.8	17
85	Kinematics of rotating panels of Eâ€“W faults in the San Andreas system: what can we tell from geodesy?. <i>Geophysical Journal International</i> , 2013, 194, 1295-1301.	1.0	17
86	Fabrics and Veins in the Forearc: A Record of Cyclic Fluid Flow at Depths of < 15 Km. <i>Geophysical Monograph Series</i> , 2013, , 75-89.	0.1	17
87	Structural evolution of a nappe complex, southern Vanoise massif, French Penninic Alps. <i>Journal of Structural Geology</i> , 1985, 7, 145-160.	1.0	16
88	Comment on â€œAlternating contractional and extensional events in the Alpujarride nappes of the Alboran Domain (Betics, Gibraltar Arc)â€“by Juan C. BalanyÃ¡ et al.. <i>Tectonics</i> , 1998, 17, 973-976.	1.3	16
89	Rheology, microstructure, and fabric in a large scale mantle shear zone, Ronda Peridotite, southern Spain. <i>Journal of Structural Geology</i> , 2015, 73, 1-17.	1.0	16
90	Tectonic Uplift and Exhumation of Blueschist Belts Along Transpressional Strike-Slip Fault Zones. <i>Geophysical Monograph Series</i> , 2013, , 143-154.	0.1	15

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91	A revised thermal history of the Ronda peridotite, S. Spain: New evidence for excision during exhumation. <i>Earth and Planetary Science Letters</i> , 2014, 393, 187-199.	1.8	15
92	Superposed and refolded metamorphic isograds and superposed directions of shear during late orogenic extension in the Alborn Domain, southern Spain. <i>Tectonics</i> , 2017, 36, 756-786.	1.3	14
93	Natural and Experimental Constraints on a Flow Law for Dislocation-Dominated Creep in Wet Quartz. <i>Journal of Geophysical Research: Solid Earth</i> , 2021, 126, e2020JB021302.	1.4	14
94	Quartz grain size evolution during dynamic recrystallization across a natural shear zone boundary. <i>Journal of Structural Geology</i> , 2018, 109, 120-126.	1.0	12
95	Accretionary Mechanics with Properties that Vary in Space and Time. <i>Geophysical Monograph Series</i> , 0, 39-48.	0.1	11
96	Stress, microstructure, and deformation mechanisms during subduction underplating at the depth of tremor and slow slip, Franciscan Complex, northern California. <i>Journal of Structural Geology</i> , 2022, 154, 104469.	1.0	9
97	Comment and Reply on "Exhumation of high-pressure metamorphic rocks". <i>Geology</i> , 1992, 20, 186.	2.0	7
98	The Internal-External zone boundary in the eastern Betic Cordillera, SE Spain: Reply. <i>Journal of Structural Geology</i> , 1996, 18, 525-527.	1.0	7
99	Quartz-in-garnet barometry constraints on formation pressures of eclogites from the Franciscan Complex, California. <i>Contributions To Mineralogy and Petrology</i> , 2022, 177, 1.	1.2	7
100	Variations in the P-T-t of Deformation in a Crustal-Scale Shear Zone in Metagranite. <i>Geochemistry, Geophysics, Geosystems</i> , 2020, 21, e2020GC009384.	1.0	5
101	Metamorphic Temperatures and Pressures across the Eastern Franciscan: Implications for Underplating and Exhumation. <i>Lithosphere</i> , 2020, 2020, .	0.6	5
102	Discussion on attenuation and excision of a crustal section during extensional exhumation, Carratraca peridotite, Betic Cordilleras, southern Spain. <i>Journal of the Geological Society</i> , 2000, 157, 253-255.	0.9	4
103	Is the Vincent fault in southern California the Laramide subduction zone megathrust?. <i>Bulletin of the Geological Society of America</i> , 2019, 131, 120-136.	1.6	3
104	Persistent slip rate discrepancies in the eastern California (USA) shear zone: Comment. <i>Geology</i> , 2017, 45, e425-e425.	2.0	2
105	Comment on "Channel flow, tectonic overpressure, and exhumation of high-pressure rocks in the Greater Himalayas" by Marques et al. (2018). <i>Solid Earth</i> , 2019, 10, 357-361.	1.2	2
106	Reply to comment on "Quartz grain size evolution during dynamic recrystallization across a natural shear zone boundary". <i>Journal of Structural Geology</i> , 2018, 117, 240.	1.0	1
107	Stress sensitivity of high-temperature microstructures in ice, with potential applications to quartz. <i>Journal of Structural Geology</i> , 2022, 154, 104487.	1.0	1
108	Catastrophe theory: Application to the Permian mass extinction: Comments and reply. <i>Geology</i> , 1978, 6, 453.	2.0	0

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109	Kinematics of the Alpine arc. Nature, 1989, 341, 576-576.	13.7	0
110	Reply to comment by L. Michard et al. on "The ultimate arc: Differential displacements, oroclinal bending, and vertical axis rotation in the External Betic-Rif arc". Tectonics, 2005, 24, n/a-n/a.	1.3	0