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 g-index
126 all docs	126 docs citations	126 times ranked	4606 citing authors

#	Article	IF	Citations
1	Stress, microstructure, and deformation mechanisms during subduction underplating at the depth of tremor and slow slip, Franciscan Complex, northern California. Journal of Structural Geology, 2022, 154, 104469.	1.0	9
2	Stress sensitivity of high-temperature microstructures in ice, with potential applications to quartz. Journal of Structural Geology, 2022, 154, 104487.	1.0	1
3	Quartz-in-garnet barometry constraints on formation pressures of eclogites from the Franciscan Complex, California. Contributions To Mineralogy and Petrology, 2022, 177, 1.	1.2	7
4	Natural and Experimental Constraints on a Flow Law for Dislocationâ€Dominated Creep in Wet Quartz. Journal of Geophysical Research: Solid Earth, 2021, 126, e2020JB021302.	1.4	14
5	The Deep Structure and Rheology of a Plate Boundary-Scale Shear Zone: Constraints from an Exhumed Caledonian Shear Zone, NW Scotland. Lithosphere, 2020, 2020, .	0.6	19
6	Variations in the Pâ€Tâ€t of Deformation in a Crustalâ€Scale Shear Zone in Metagranite. Geochemistry, Geophysics, Geosystems, 2020, 21, e2020GC009384.	1.0	5
7	Metamorphic Temperatures and Pressures across the Eastern Franciscan: Implications for Underplating and Exhumation. Lithosphere, 2020, 2020, .	0.6	5
8	Is the Vincent fault in southern California the Laramide subduction zone megathrust?. Bulletin of the Geological Society of America, 2019, 131, 120-136.	1.6	3
9	Comment on â€œChannel flow, tectonic overpressure, and exhumation of high-pressure rocks in the Greater Himalayasâ€•by Marques et al. (2018). Solid Earth, 2019, 10, 357-361.	1.2	2
10	Quartz grainsize evolution during dynamic recrystallization across a natural shear zone boundary. Journal of Structural Geology, 2018, 109, 120-126.	1.0	12
11	A new structural and kinematic framework for the AlborÃ¡n Domain (Beticâ€“Rif arc, western) Tj ETQq1 1 0.784314 rgBT /Overlock 10	0.9	18
12	Rheology and stress in subduction zones around the aseismic/seismic transition. Progress in Earth and Planetary Science, 2018, 5, .	1.1	39
13	Subduction, accretion, and exhumation of coherent Franciscan blueschist-facies rocks, northern Coast Ranges, California. Lithosphere, 2018, 10, 301-326.	0.6	20
14	Reply to comment on "Quartz grainsize evolution during dynamic recrystallization across a natural shear zone boundary". Journal of Structural Geology, 2018, 117, 240.	1.0	1
15	Superposed and refolded metamorphic isograds and superposed directions of shear during late orogenic extension in the AlborÃ¡n Domain, southern Spain. Tectonics, 2017, 36, 756-786.	1.3	14
16	Stress dependence of microstructures in experimentally deformed calcite. Journal of Structural Geology, 2017, 105, 80-87.	1.0	18
17	Shear zone junctions: Of zippers and freeways. Journal of Structural Geology, 2017, 95, 188-202.	1.0	25
18	Persistent slip rate discrepancies in the eastern California (USA) shear zone: Comment. Geology, 2017, 45, e425-e425.	2.0	2

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19	Structural and rheological evolution of the Laramide subduction channel in southern California. Solid Earth, 2017, 8, 379-403.	1.2	21
20	Rheological transitions in the middle crust: insights from Cordilleran metamorphic core complexes. Solid Earth, 2017, 8, 199-215.	1.2	20
21	Zipper junctions: A new approach to the intersections of conjugate strike-slip faults. Geology, 2016, 44, 795-798.	2.0	25
22	Rheology of two-phase systems: A microphysical and observational approach. Journal of Structural Geology, 2015, 77, 213-227.	1.0	63
23	Rheology, microstructure, and fabric in a large scale mantle shear zone, Ronda Peridotite, southern Spain. Journal of Structural Geology, 2015, 73, 1-17.	1.0	16
24	Influence of shear heating on microstructurally defined plate boundary shear zones. Journal of Structural Geology, 2015, 79, 80-89.	1.0	34
25	Origin of Franciscan blueschist-bearing melange at San Simeon, central California coast. International Geology Review, 2015, 57, 843-853.	1.1	42
26	Metamorphic core complexes: windows into the mechanics and rheology of the crust. Journal of the Geological Society, 2015, 172, 9-27.	0.9	116
27	Brittle faults are weak, yet the ductile middle crust is strong: Implications for lithospheric mechanics. Geophysical Research Letters, 2014, 41, 8067-8075.	1.5	92
28	A revised thermal history of the Ronda peridotite, S. Spain: New evidence for excision during exhumation. Earth and Planetary Science Letters, 2014, 393, 187-199.	1.8	15
29	What Controls the Seismogenic Plate Interface in Subduction Zones?. Geophysical Monograph Series, 2013, , 105-111.	0.1	33
30	Rheological evolution of a Mediterranean subduction complex. Journal of Structural Geology, 2013, 54, 136-155.	1.0	57
31	The Betic-Rif Arc and Its Orogenic Hinterland: A Review. Annual Review of Earth and Planetary Sciences, 2013, 41, 313-357.	4.6	202
32	A Thermotectonic Model for Preservation of Ultrahigh-Pressure Phases in Metamorphosed Continental Crust. Geophysical Monograph Series, 2013, , 171-178.	0.1	31
33	Kinematics of rotating panels of Eâ€“W faults in the San Andreas system: what can we tell from geodesy?. Geophysical Journal International, 2013, 194, 1295-1301.	1.0	17
34	Tectonic Uplift and Exhumation of Blueschist Belts Along Transpressional Strike-Slip Fault Zones. Geophysical Monograph Series, 2013, , 143-154.	0.1	15
35	Fabrics and Veins in the Forearc: A Record of Cyclic Fluid Flow at Depths of <15 Km. Geophysical Monograph Series, 2013, , 75-89.	0.1	17
36	Kinematic and thermal evolution during twoâ€stage exhumation of a Mediterranean subduction complex. Tectonics, 2012, 31, .	1.3	62

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37	A naturally constrained stress profile through the middle crust in an extensional terrane. Earth and Planetary Science Letters, 2011, 303, 181-192.	1.8	178
38	Constraints on early Franciscan subduction rates from 2-D thermal modeling. Earth and Planetary Science Letters, 2011, 312, 69-79.	1.8	21
39	Deep structure of lithospheric fault zones. Geophysical Research Letters, 2011, 38, n/a-n/a.	1.5	46
40	Grainsize evolution in ductile shear zones: Implications for strain localization and the strength of the lithosphere. Journal of Structural Geology, 2011, 33, 537-550.	1.0	164
41	Lithospheric shear zones as constant stress experiments. Geology, 2011, 39, 127-130.	2.0	65
42	Footwall dip of a core complex detachment fault: thermobarometric constraints from the northern Snake Range (Basin and Range, USA). Journal of Metamorphic Geology, 2010, 28, 997-1020.	1.6	42
43	Uncertainties in slip-rate estimates for the Mission Creek strand of the southern San Andreas fault at Biskra Palms Oasis, southern California. Bulletin of the Geological Society of America, 2010, 122, 1360-1377.	1.6	92
44	Opposing shear senses in a subdetachment mylonite zone: Implications for core complex mechanics. Tectonics, 2010, 29, n/a-n/a.	1.3	18
45	Where is the real transform boundary in California?. Geochemistry, Geophysics, Geosystems, 2010, 11, .	1.0	41
46	Plate movements, ductile deformation and geochronology of the Sanbagawa belt, SW Japan: tectonic significance of 89â€“88â€ƒMa Luâ€“Hf eclogite ages. Journal of Metamorphic Geology, 2009, 27, 93-105.	1.6	102
47	Lithosphere structure underneath the Tibetan Plateau inferred from elevation, gravity and geoid anomalies. Earth and Planetary Science Letters, 2008, 267, 276-289.	1.8	167
48	The mechanics of continental transforms: An alternative approach with applications to the San Andreas system and the tectonics of California. Earth and Planetary Science Letters, 2008, 274, 380-391.	1.8	17
49	From orogenic hinterlands to Mediterranean-style back-arc basins: a comparative analysis. Journal of the Geological Society, 2007, 164, 297-311.	0.9	52
50	Early Miocene continental subduction and rapid exhumation in the western Mediterranean. Geology, 2006, 34, 981.	2.0	133
51	Influence of mantle dynamics on the topographic evolution of the Tibetan Plateau: Results from numerical modeling. Tectonics, 2006, 25, n/a-n/a.	1.3	49
52	Timing of tectonic events in the AlpujÃ¡rride Complex, Betic Cordillera, southern Spain. Journal of the Geological Society, 2005, 162, 451-462.	0.9	113
53	Reply to comment by L. Michard et al. on â€œThe ultimate arc: Differential displacements, oroclinal bending, and vertical axis rotation in the External Betic-Rif arcâ€• Tectonics, 2005, 24, n/a-n/a.	1.3	0
54	Gravitational and tectonic forces controlling postcollisional deformation and the present-day stress field of the Alps: Constraints from numerical modeling. Tectonics, 2005, 24, n/a-n/a.	1.3	25

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55	Kinematics of a twisted core complex: Oblique axis rotation in an extended terrane (Betic Cordillera,) Tj ETQq1 1 0.784314 rgBT /Over	1.3	19
56	Franciscan subduction off to a slow start: evidence from high-precision Luâ€“Hf garnet ages on high grade-blocks. Earth and Planetary Science Letters, 2004, 225, 147-161.	1.8	190
57	Internal structure of a collapsed terrain. Tectonophysics, 2004, 385, 85-104.	0.9	23
58	Dating high-grade metamorphismâ€"constraints from rare-earth elements in zircon and garnet. Contributions To Mineralogy and Petrology, 2003, 145, 61-74.	1.2	452
59	The ultimate arc: Differential displacement, oroclinal bending, and vertical axis rotation in the External Betic-Rif arc. Tectonics, 2003, 22, n/a-n/a.	1.3	162
60	Simultaneous extensional exhumation across the Alboran Basin: Implications for the causes of late orogenic extension. Geology, 2003, 31, 251.	2.0	158
61	Evidence for active subduction beneath Gibraltar: Comment and Reply. Geology, 2003, 31, e22-e22.	2.0	22
62	Large clockwise rotations in an extensional allochthon, Alboran Domain (southern Spain). Journal of the Geological Society, 2000, 157, 1187-1197.	0.9	38
63	Calibrating the bulk rheology of active obliquely convergent thrust belts and forearc wedges from surface profiles and velocity distributions. Tectonics, 2000, 19, 529-548.	1.3	24
64	Discussion on attenuation and excision of a crustal section during extensional exhumation, Carratraca peridotite, Betic Cordilleras, southern Spain. Journal of the Geological Society, 2000, 157, 253-255.	0.9	4
65	Magmatism Associated with Orogenic Collapse of the Betic-Alboran Domain, SE Spain. Journal of Petrology, 1999, 40, 1011-1036.	1.1	274
66	Petrological and Structural Evolution of High-Grade Metamorphic Rocks from the Floor of the Alboran Sea Basin, Western Mediterranean. Journal of Petrology, 1999, 40, 21-60.	1.1	74
67	Early Miocene high-temperature metamorphism and rapid exhumation in the Betic Cordillera (Spain): evidence from Uâ€"Pb zircon ages. Earth and Planetary Science Letters, 1999, 171, 591-605.	1.8	114
68	Attenuation and excision of a crustal section during extensional exhumation: the Carratraca Massif, Betic Cordillera, southern Spain. Journal of the Geological Society, 1999, 156, 149-162.	0.9	86
69	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.. Tectonics, 1998, 17, 973-976.	1.3	16
70	Thermal evolution, rate of exhumation, and tectonic significance of metamorphic rocks from the floor of the Alboran extensional basin, western Mediterranean. Tectonics, 1998, 17, 671-689.	1.3	184
71	Unidirectional slip vectors in the western Betic Cordillera: implications for the formation of the Gibraltar arc. Journal of the Geological Society, 1998, 155, 193-207.	0.9	28
72	The Internal-External zone boundary in the eastern Betic Cordillera, SE Spain: Reply. Journal of Structural Geology, 1996, 18, 525-527.	1.0	7

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73	Decompression and high-temperatureâ€“low-pressure metamorphism in the exhumed floor of an extensional basin, Alboran Sea, western Mediterranean. Geology, 1996, 24, 447.	2.0	39
74	Origin of the western Subbetic arc (South Spain): palaeomagnetic and structural evidence. Journal of Structural Geology, 1995, 17, 765-775.	1.0	59
75	The Malaguide-Alpujarride boundary: a major extensional contact in the Internal Zone of the eastern Betic Cordillera, SE Spain. Journal of Structural Geology, 1995, 17, 1655-1671.	1.0	79
76	Late orogenic extension of the Betic Cordillera and the Alboran Domain: A lithospheric view. Tectonics, 1995, 14, 786-803.	1.3	237
77	The internal-external zone boundary in the eastern Betic Cordillera, SE Spain. Journal of Structural Geology, 1994, 16, 175-188.	1.0	36
78	Why are there no clockwise rotations along the North Anatolian Fault Zone?. Journal of Geophysical Research, 1994, 99, 21705-21715.	3.3	65
79	A structural and palaeomagnetic study of a section through the eastern Subbetic, Southern Spain. Journal of the Geological Society, 1994, 151, 659-668.	0.9	21
80	Exhumation of highâ€pressure rocks: a review of concepts and processes. Terra Nova, 1993, 5, 119-133.	0.9	445
81	Palaeomagnetic rotations in the eastern Betic Cordillera, southern Spain. Earth and Planetary Science Letters, 1993, 119, 225-241.	1.8	69
82	Palaeomagnetic rotations and fault kinematics in the Rif Arc of Morocco. Journal of the Geological Society, 1993, 150, 707-718.	0.9	53
83	Mechanics of oblique convergence. Journal of Geophysical Research, 1993, 98, 16239-16256.	3.3	98
84	Comment and Reply on "Exhumation of high-pressure metamorphic rocks". Geology, 1992, 20, 186.	2.0	7
85	Budget of crustal shortening and subduction of continental crust in the Alps. Tectonics, 1991, 10, 231-244.	1.3	29
86	Thrust mechanics in highly overpressured accretionary wedges. Journal of Geophysical Research, 1990, 95, 9025-9034.	3.3	47
87	Extensional collapse of thickened continental lithosphere: A working hypothesis for the Alboran Sea and Gibraltar arc. Geology, 1989, 17, 540.	2.0	712
88	Kinematics of the Alpine arc and the motion history of Adria. Nature, 1989, 337, 158-161.	13.7	174
89	Kinematics of the Alpine arc. Nature, 1989, 341, 576-576.	13.7	0
90	Thrusting and backthrusting in the BrianÃ§onnais domain of the western Alps. Geological Society Special Publication, 1989, 45, 135-152.	0.8	25

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91	The mechanics of frontal imbrication: a first-order analysis. International Journal of Earth Sciences, 1988, 77, 577-589.	0.9	66
92	Slip vectors and fault mechanics in the Makran Accretionary Wedge, southwest Pakistan. Journal of Geophysical Research, 1988, 93, 7955-7973.	3.3	76
93	Structures and fabrics in a crustal-scale shear zone, Betic Cordillera, SE Spain. Journal of Structural Geology, 1986, 8, 15-33.	1.0	168
94	Dynamics of orogenic wedges and the uplift of high-pressure metamorphic rocks. Bulletin of the Geological Society of America, 1986, 97, 1037.	1.6	1,129
95	Large-scale sediment underplating in the Makran accretionary prism, southwest Pakistan. Geology, 1985, 13, 507.	2.0	170
96	Structural history of high-pressure metamorphic rocks in the southern vanoise massif, french alps, and their relation to alpine tectonic events. Journal of Structural Geology, 1985, 7, 19-35.	1.0	37
97	Structural evolution of a nappe complex, southern Vanoise massif, French Penninic Alps. Journal of Structural Geology, 1985, 7, 145-160.	1.0	16
98	A zone of mylonite and related ductile deformation beneath the alpujarride nappe complex, betic cordilleras, S. Spain. Geologische Rundschau: Zeitschrift Fur Allgemeine Geologie, 1984, 73, 773-785.	1.3	28
99	Secondary cleavages in ductile shear zones. Journal of Structural Geology, 1984, 6, 439-442.	1.0	187
100	The structure and tectonic evolution of the AguilÃ³n fold-nappe, Sierra Alhamilla, Betic Cordilleras, SE Spain. Journal of Structural Geology, 1983, 5, 519-538.	1.0	82
101	Progressive refolding in ductile shear zones. Journal of Structural Geology, 1983, 5, 619-622.	1.0	92
102	Emplacement of a fold-nappe, Betic orogen, southern Spain. Geology, 1982, 10, 97.	2.0	42
103	Sense of nappe emplacement from quartz c-axis fabrics; an example from the Betic Cordilleras (Spain). Earth and Planetary Science Letters, 1982, 59, 208-215.	1.8	94
104	Archaean greenstone belts: A structaral test of tectonic hypothesis. Tectonophysics, 1980, 65, 127-150.	0.9	45
105	Extensional structures in anisotropic rocks. Journal of Structural Geology, 1980, 2, 397-410.	1.0	593
106	Archaean tectonics in the Agnew supracrustal belt, Western Australia. Precambrian Research, 1978, 7, 3-30.	1.2	60
107	Catastrophe theory: Application to the Permian mass extinction: Comments and reply. Geology, 1978, 6, 453.	2.0	0
108	Possible Strike-Slip Faulting in the Southern California Borderland: Reply. Geology, 1975, 3, 3.	2.0	17

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109	Metamorphic and deformational processes in the Franciscan Complex, California: Some insights from the Catalina Schist terrane. Bulletin of the Geological Society of America, 1975, 86, 1337.	1.6	143
110	Accretionary Mechanics with Properties that Vary in Space and Time. Geophysical Monograph Series, 0, , 39-48.	0.1	11