Victor Bense

List of Publications by Year
in descending order

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67 papers	2,955 citations	172457 29 h-index	168389 53 g-index
86 all docs	86 docs citations	86 times ranked	3183 citing authors

#	Article	IF	Citations
1	Fault zone hydrogeology. Earth-Science Reviews, 2013, 127, 171-192.	9.1	484
2	Faults as conduit-barrier systems to fluid flow in siliciclastic sedimentary aquifers. Water Resources Research, 2006, 42, .	4.2	172
3	Evolution of shallow groundwater flow systems in areas of degrading permafrost. Geophysical Research Letters, 2009, 36, .	4.0	169
4	Pleistocene hydrology of North America: The role of ice sheets in reorganizing groundwater flow systems. Reviews of Geophysics, 2007, 45, .	23.0	127
5	Permafrost degradation as a control on hydrogeological regime shifts in a warming climate. Journal of Geophysical Research, 2012, 117, .	3.3	113
6	Characterizing groundwater flow and heat transport in fractured rock using fiberâ€optic distributed temperature sensing. Geophysical Research Letters, 2013, 40, 2055-2059.	4.0	110
7	Deformation mechanisms and hydraulic properties of fault zones in unconsolidated sediments; the Roer Valley Rift System, The Netherlands. Hydrogeology Journal, 2003, 11, 319-332.	2.1	108
8	Thermal regime of warm-dry permafrost in relation to ground surface temperature in the Source Areas of the Yangtze and Yellow rivers on the Qinghai-Tibet Plateau, SW China. Science of the Total Environment, 2018, 618, 1033-1045.	8.0	100
9	Distributed <scp>T</scp>emperature <scp>S</scp>ensing as a downhole tool in hydrogeology. Water Resources Research, 2016, 52, 9259-9273.	4.2	91
10	Groundwater flow and heat transport for systems undergoing freeze-thaw: Intercomparison of numerical simulators for 2D test cases. Advances in Water Resources, 2018, 114, 196-218.	3.8	91
11	Assessment of basin-scale hydrologic impacts of CO2 sequestration, Illinois basin. International Journal of Greenhouse Gas Control, 2010, 4, 840-854.	4.6	75
12	Transient hydrodynamics within intercratonic sedimentary basins during glacial cycles. Journal of Geophysical Research, 2008, 113, .	3.3	71
13	Temporal and spatial variations of shallow subsurface temperature as a record of lateral variations in groundwater flow. Journal of Geophysical Research, 2004, 109, .	3.3	67
14	The effect of fault relay and clay smearing on groundwater flow patterns in the Lower Rhine Embayment. Basin Research, 2004, 16, 397-411.	2.7	61
15	Active-distributed temperature sensing to continuously quantify vertical flow in boreholes. Water Resources Research, 2014, 50, 3706-3713.	4.2	59
16	Uncertainty in 1D Heat-Flow Analysis to Estimate Groundwater Discharge to a Stream. Ground Water, 2011, 49, 336-347.	1.3	56
17	Thermal anomalies indicate preferential flow along faults in unconsolidated sedimentary aquifers. Geophysical Research Letters, 2008, 35, .	4.0	50
18	Theory, tools, and multidisciplinary applications for tracing groundwater fluxes from temperature profiles. Wiley Interdisciplinary Reviews: Water, 2019, 6, e1329.	6.5	50

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19	Influences of Frozen Ground and Climate Change on Hydrological Processes in an Alpine Watershed: A Case Study in the Upstream Area of the Hei'he River, Northwest China. Permafrost and Periglacial Processes, 2017, 28, 420-432.	3.4	47
20	Impacts of degrading permafrost on streamflow in the source area of Yellow River on the Qinghai-Tibet Plateau, China. Advances in Climate Change Research, 2019, 10, 225-239.	5.1	47
21	Fault architecture and deformation processes within poorly lithified rift sediments, Central Greece. Journal of Structural Geology, 2011, 33, 1554-1568.	2.3	43
22	Dissolved organic carbon in permafrost regions: A review. Science China Earth Sciences, 2019, 62, 349-364.	5.2	41
23	Models of iceâ€sheet hydrogeologic interactions: a review. Geofluids, 2012, 12, 58-78.	0.7	39
24	Hydrothermal processes of near-surface warm permafrost in response to strong precipitation events in the Headwater Area of the Yellow River, Tibetan Plateau. Geoderma, 2020, 376, 114531.	5.1	38
25	Combined Geophysical Measurements Provide Evidence for Unfrozen Water in Permafrost in the Adventdalen Valley in Svalbard. Geophysical Research Letters, 2018, 45, 7606-7614.	4.0	34
26	Ground surface temperature and the detection of permafrost in the rugged topography on NE Qinghai-Tibet Plateau. Geoderma, 2019, 333, 57-68.	5.1	34
27	Impact of horizontal groundwater flow and localized deforestation on the development of shallow temperature anomalies. Journal of Geophysical Research, 2007, 112, .	3.3	33
28	Permafrost Degradation and Its Hydrogeological Impacts. Water (Switzerland), 2022, 14, 372.	2.7	33
29	Invited perspective: What lies beneath a changing Arctic?. Cryosphere, 2021, 15, 479-484.	3.9	32
30	Using distributed temperature sensing to monitor field scale dynamics of ground surface temperature and related substrate heat flux. Agricultural and Forest Meteorology, 2016, 220, 207-215.	4.8	28
31	Terrestrial water load and groundwater fluctuation in the Bengal Basin. Scientific Reports, 2017, 7, 3872.	3.3	25
32	Impacts of glacially recharged groundwater flow systems on talik evolution. Journal of Geophysical Research F: Earth Surface, 2014, 119, 758-778.	2.8	23
33	Tracking the Subsurface Signal of Decadal Climate Warming to Quantify Vertical Groundwater Flow Rates. Geophysical Research Letters, 2017, 44, 12,244.	4.0	22
34	Sulfuric Acid Speleogenesis Associated with a Glacially Driven Groundwater Systemâ€"Paleo-spring â€œPipesâ€•at Borup Fiord Pass, Nunavut. Astrobiology, 2012, 12, 19-28.	3.0	21
35	Interpreting Repeated Temperatureâ€Depth Profiles for Groundwater Flow. Water Resources Research, 2017, 53, 8639-8647.	4.2	21
36	Using Heat to Trace Vertical Water Fluxes in Sediment Experiencing Concurrent Tidal Pumping and Groundwater Discharge. Water Resources Research, 2021, 57, e2020WR027904.	4.2	20

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37	Transient nature of Arctic spring systems driven by subglacial meltwater. Geophysical Research Letters, 2012, 39, .	4.0	19
38	Modeling Reactive Solute Transport in Permafrostâ€Affected Groundwater Systems. Water Resources Research, 2021, 57, e2020WR028771.	4.2	19
39	Assessing Textural Variation in Laminated Sands Using Digital Image Analysis of Thin Sections. Journal of Sedimentary Research, 2003, 73, 133-143.	1.6	17
40	Thermal-plume fibre optic tracking (T-POT) test for flow velocity measurement in groundwater boreholes. Geoscientific Instrumentation, Methods and Data Systems, 2015, 4, 197-202.	1.6	17
41	Dissolved noble gases and stable isotopes as tracers of preferential fluid flow along faults in the Lower Rhine Embayment, Germany. Hydrogeology Journal, 2016, 24, 99-108.	2.1	17
42	Potential controls on cold-season river flow behavior in subarctic river basins of Siberia. Journal of Hydrology, 2013, 489, 214-226.	5.4	16
43	Application of electrical resistivity tomography for delineating permafrost hydrogeology in the headwater area of Yellow River on Qinghai-Tibet Plateau, SW China. Hydrogeology Journal, 2019, 27, 1725-1737.	2.1	15
44	3D hydro-mechanically coupled groundwater flow modelling of Pleistocene glaciation effects. Computers and Geosciences, 2014, 67, 89-99.	4.2	14
45	Rethinking the Use of Seabed Sediment Temperature Profiles to Trace Submarine Groundwater Flow. Water Resources Research, 2018, 54, 4595-4614.	4.2	14
46	Saltwater Intrusion Intensifies Coastal Permafrost Thaw. Geophysical Research Letters, 2021, 48, e2021GL094776.	4.0	14
47	Hydrogeological aspects of fault zones on various scales in theRoer Valley Rift System. Journal of Geochemical Exploration, 2003, 78-79, 317-320.	3.2	13
48	Determining the Relation between Groundwater Flow Velocities and Measured Temperature Differences Using Active Heating-Distributed Temperature Sensing. Water (Switzerland), 2019, 11, 1619.	2.7	13
49	Impacts of progressive urban expansion on subsurface temperatures in the city of Amsterdam (The) Tj ETQq1 1 0.784314 rgBT /Overl	2.1	12
50	Fault zone hydrogeology: introduction to the special issue. Geofluids, 2016, 16, 655-657.	0.7	11
51	Comparison of three types of fiber optic sensors for temperature monitoring in a groundwater flow simulator. Sensors and Actuators A: Physical, 2021, 331, 112682.	4.1	11
52	Parameter sensitivity analysis of a two-dimensional cryo-hydrogeological numerical model of degrading permafrost near Umiujaq (Nunavik, Canada). Hydrogeology Journal, 2020, 28, 905-919.	2.1	10
53	Repeated Subsurface Thermal Profiling to Reveal Temporal Variability in Deep Groundwater Flow Conditions. Water Resources Research, 2020, 56, e2019WR026913.	4.2	10
54	Estimating water balance components and their uncertainty bounds in highly groundwater-dependent and data-scarce area: An example for the Upper Citarum basin. Journal of Hydrology: Regional Studies, 2021, 37, 100911.	2.4	10

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55	Numerical modelling of permafrost spring discharge and open-system pingo formation induced by basal permafrost aggradation. Cryosphere, 2020, 14, 4627-4651.	3.9	9
56	Effects of fire history on thermal regimes of permafrost in the northern Da Xingâ€™anling Mountains, NE China. Geoderma, 2022, 410, 115670.	5.1	9
57	Sea-level rise and warming mediate coastal groundwater discharge in the Arctic. Environmental Research Letters, 2022, 17, 045027.	5.2	9
58	Inferring Permafrost Active Layer Thermal Properties From Numerical Model Optimization. Geophysical Research Letters, 2021, 48, e2021GL093306.	4.0	7
59	Geologic isolation of nuclear waste at high latitudes: the role of ice sheets. Geofluids, 2012, 12, 1-6.	0.7	4
60	Streamflow Changes in the Headwater Area of Yellow River, NE Qinghai-Tibet Plateau during 1955â€“2040 and Their Implications. Water (Switzerland), 2021, 13, 1360.	2.7	4
61	Using transient temperatureâ€“depth profiles to assess vertical groundwater flow across semi-confining layers in the Chianan coastal plain aquifer systeme, southern Taiwan. Hydrogeology Journal, 2019, 27, 2155-2166.	2.1	3
62	An overview of fault zone permeabilities and groundwater level steps in the Roer Valley Rift System. Geologie En Mijnbouw/Netherlands Journal of Geosciences, 2019, 98, .	0.9	3
63	Inferring Suspended Sediment Carbon Content and Particle Size at High Frequency From the Optical Response of a Submerged Spectrometer. Water Resources Research, 2022, 58, .	4.2	3
64	Hydrogeological evaluation of managed aquifer recharge in a glacial moraine complex using long-term groundwater data analysis. Hydrogeology Journal, 2020, 28, 1787-1807.	2.1	2
65	Inferring Aquitard Hydraulic Conductivity Using Transient Temperatureâ€Depth Profiles Impacted by Ground Surface Warming. Water Resources Research, 2022, 58, .	4.2	2
66	Dynamics of rare earth elements and associated major and trace elements during Douglas-fir (Pseudotsuga menziesii) and European beech (Fagus sylvatica L.) litter degradation. Biogeosciences, 2022, 19, 3111-3129.	3.3	2
67	Temporal and spatial variability of cross-fault groundwater-level differences: the impact of fault-induced permeability reduction, precipitation and evapotranspiration. Hydrogeology Journal, 0, , 1.	2.1	0