

Ronald J Bakker

List of Publications by Year in descending order

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64
papers

2,647
citations

236925

25
h-index

182427

51
g-index

65
all docs

65
docs citations

65
times ranked

1866
citing authors

#	ARTICLE	IF	CITATIONS
1	Package FLUIDS 1. Computer programs for analysis of fluid inclusion data and for modelling bulk fluid properties. <i>Chemical Geology</i> , 2003, 194, 3-23.	3.3	636
2	Clathrates: Computer programs to calculate fluid inclusion V-X properties using clathrate melting temperatures. <i>Computers and Geosciences</i> , 1997, 23, 1-18.	4.2	167
3	A mechanism for preferential H ₂ O leakage from fluid inclusions in quartz, based on TEM observations. <i>Contributions To Mineralogy and Petrology</i> , 1994, 116, 7-20.	3.1	155
4	Experimental post-entrapment water loss from synthetic CO ₂ -H ₂ O inclusions in natural quartz. <i>Geochimica Et Cosmochimica Acta</i> , 1991, 55, 2215-2230.	3.9	144
5	Adaptation of the Bowers and Helgeson (1983) equation of state to the H ₂ O-CO ₂ -CH ₄ -N ₂ -NaCl system. <i>Chemical Geology</i> , 1999, 154, 225-236.	3.3	142
6	Preferential water leakage from fluid inclusions by means of mobile dislocations. <i>Nature</i> , 1990, 345, 58-60.	27.8	125
7	Estimation of volume fractions of liquid and vapor phases in fluid inclusions, and definition of inclusion shapes. <i>American Mineralogist</i> , 2006, 91, 635-657.	1.9	94
8	Improvements in clathrate modelling: I. The H ₂ O-CO ₂ system with various salts. <i>Geochimica Et Cosmochimica Acta</i> , 1996, 60, 1657-1681.	3.9	90
9	Raman spectroscopy of pure H ₂ O and NaCl-H ₂ O containing synthetic fluid inclusions in quartz—a study of polarization effects. <i>Mineralogy and Petrology</i> , 2009, 95, 1-15.	1.1	62
10	Determination of the composition and molar volume of H ₂ O-CO ₂ fluid inclusions by microthermometry. <i>Geochimica Et Cosmochimica Acta</i> , 2000, 64, 1753-1764.	3.9	54
11	Room temperature pulsed laser deposited (Ti,Al) _x N _{1-x} coatings—chemical, structural, mechanical and tribological properties. <i>Thin Solid Films</i> , 2004, 468, 125-133.	1.8	51
12	High-temperature Raman spectroscopic study of H ₂ O-CO ₂ -CH ₄ mixtures in synthetic fluid inclusions: first insights on molecular interactions and analytical implications. <i>European Journal of Mineralogy</i> , 1999, 11, 23-32.	1.3	51
13	Raman spectra of ice and salt hydrates in synthetic fluid inclusions. <i>Chemical Geology</i> , 2010, 275, 58-66.	3.3	49
14	Evidence for channelized external fluid flow and element transfer in subducting slabs (Raspas) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 222	3.3	47
15	A magmatic-hydrothermal transition in Arkaroola (northern Flinders Ranges, South Australia): from diopside-titanite pegmatites to hematite-quartz growth. <i>Contributions To Mineralogy and Petrology</i> , 2006, 152, 541-569.	3.1	46
16	Package FLUIDS. Part 4: thermodynamic modelling and purely empirical equations for H ₂ O-NaCl-KCl solutions. <i>Mineralogy and Petrology</i> , 2012, 105, 1-29.	1.1	44
17	The Angouran Zn (Pb) deposit, NW Iran: Evidence for a two stage, hypogene zinc sulfide-zinc carbonate mineralization. <i>Ore Geology Reviews</i> , 2013, 53, 373-402.	2.7	44
18	Package FLUIDS. Part 3: correlations between equations of state, thermodynamics and fluid inclusions. <i>Geofluids</i> , 2009, 9, 63-74.	0.7	42

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19	AqSo_NaCl: Computer program to calculate p-T-V-x properties in the H ₂ O-NaCl fluid system applied to fluid inclusion research and pore fluid calculation. <i>Computers and Geosciences</i> , 2018, 115, 122-133.	4.2	41
20	Characterization of tribo-layers on self-lubricating plasma-assisted chemical-vapor-deposited TiN coatings. <i>Thin Solid Films</i> , 2004, 460, 125-132.	1.8	40
21	Re-equilibration of fluid inclusions in diagenetic-anchizonal rocks of the Cinera-Matallana coal basin (NW Spain). <i>Geofluids</i> , 2003, 3, 49-68.	0.7	34
22	Characterization of Dolomitizing Fluids in the Carboniferous of the Cantabrian Zone (NW Spain): A Fluid-Inclusion Study with Cryo-Raman Spectroscopy. <i>Journal of Sedimentary Research</i> , 2006, 76, 1304-1322.	1.6	33
23	CaCl ₂ -hydrate nucleation in synthetic fluid inclusions. <i>Chemical Geology</i> , 2009, 265, 335-344.	3.3	33
24	Reequilibration of fluid inclusions: Bulk-diffusion. <i>Lithos</i> , 2009, 112, 277-288.	1.4	29
25	Garutiite, (Ni,Fe,Ir), a new hexagonal polymorph of native Ni from Loma Peguera, Dominican Republic. <i>European Journal of Mineralogy</i> , 2010, 22, 293-304.	1.3	27
26	Hot dolomites in a Variscan foreland belt: hydrothermal flow in the Cantabrian Zone (NW Spain). <i>Journal of Geochemical Exploration</i> , 2003, 78-79, 501-507.	3.2	23
27	The Loma Peguera ophiolitic chromitite (Central Dominican Republic): a source of new platinum group minerals (PGM) species. <i>Neues Jahrbuch Fur Mineralogie, Abhandlungen</i> , 2009, 185, 335-349.	0.3	23
28	Fluid inclusions as metamorphic process indicators in the Southern Aravalli Mountain Belt (India). <i>Contributions To Mineralogy and Petrology</i> , 2000, 139, 163-179.	3.1	22
29	Fluid inclusion modification by H ₂ O and D ₂ O diffusion: the influence of inclusion depth, size, and shape in re-equilibration experiments. <i>Contributions To Mineralogy and Petrology</i> , 2013, 165, 1259-1274.	3.1	21
30	Fluid Evolution During Burial Diagenesis and Subsequent Orogenetic Uplift: The La Vid Group (Cantabrian Zone, Northern Spain). <i>Journal of Sedimentary Research</i> , 2008, 78, 282-300.	1.6	20
31	Re-Equilibration Processes in Fluid Inclusion Assemblages. <i>Minerals (Basel, Switzerland)</i> , 2017, 7, 117.	2.0	20
32	Fluid inclusions as microchemical systems: evidence and modelling of fluid-host interactions in plagioclase. <i>Journal of Metamorphic Geology</i> , 2002, 20, 845-858.	3.4	16
33	Package fluids. Part 5: The NaCl-H ₂ O system in fluid inclusion research and applications of the software AqSo_NaCl (Bakker, 2018). <i>Chemical Geology</i> , 2019, 525, 400-413.	3.3	14
34	Potential evidence of fossilised Neoproterozoic deep life: SEM observations on calcite veins from Oppaminda Creek, Arkaroola, South Australia. <i>International Journal of Earth Sciences</i> , 2009, 98, 327-343.	1.8	13
35	ZACCARINIITE, RhNiAs, A NEW PLATINUM-GROUP MINERAL FROM LOMA PEGUERA, DOMINICAN REPUBLIC. <i>Canadian Mineralogist</i> , 2012, 50, 1321-1329.	1.0	12
36	A Newly Discovered Swarm of Shear-Zone-Hosted Bi-As-Fe-Mg-P-Rich Aplites and Pegmatites in the Hagedorf-Pleystein Pegmatite Province, Southeastern Germany: A Step Closer to the Metamorphic Root of Pegmatites. <i>Canadian Mineralogist</i> , 2012, 50, 943-974.	1.0	12

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37	Re-equilibration of natural H ₂ O–CO ₂ salt-rich fluid inclusions in quartz—Part 1: experiments in pure water at constant pressures and differential pressures at 600 Å°C. <i>Contributions To Mineralogy and Petrology</i> , 2014, 168, 1.	3.1	12
38	Raman spectroscopy characterisation of synthetic platinum-group minerals (PGM) in the Pd–Sn–Te and Pd–Pb–Te ternary systems. <i>European Journal of Mineralogy</i> , 2014, 26, 711-716.	1.3	11
39	The influence of the α – β phase transition of quartz on fluid inclusions during re-equilibration experiments. <i>Lithos</i> , 2014, 198-199, 14-23.	1.4	11
40	Formation of epizonal gold mineralization within the Latimojong Metamorphic Complex, Sulawesi, Indonesia: Evidence from mineralogy, fluid inclusions and Raman spectroscopy. <i>Ore Geology Reviews</i> , 2018, 97, 88-108.	2.7	11
41	Litho-stratigraphic effect on Variscan fluid flow within the Prague synform, Barrandian: Evidence based on C, O, Sr isotopes and fluid inclusions. <i>Marine and Petroleum Geology</i> , 2012, 35, 128-138.	3.3	10
42	Unexpected phase assemblages in inclusions with ternary H ₂ O-salt fluids at low temperatures. <i>Open Geosciences</i> , 2012, 4, .	1.7	10
43	The Cedrolina Chromitite, Goiás State, Brazil: A Metamorphic Puzzle. <i>Minerals (Basel, Switzerland)</i> , 2016, 6, 91.	2.0	10
44	Formation conditions of leucogranite dykes and aplite-pegmatite dykes in the eastern Mt. Capanne plutonic complex (Elba, Italy): fluid inclusion studies in quartz, tourmaline, andalusite and plagioclase. <i>Mineralogy and Petrology</i> , 2016, 110, 43-63.	1.1	10
45	Fluid types and their genetic meaning for the BIF-hosted iron ores, Krivoy Rog, Ukraine. <i>Ore Geology Reviews</i> , 2015, 68, 171-194.	2.7	9
46	Salinity and density modifications of synthetic H ₂ O and H ₂ O–NaCl fluid inclusions in re-equilibration experiments at constant temperature and confining pressure. <i>Chemical Geology</i> , 2016, 424, 73-85.	3.3	9
47	Can the vapour phase be neglected to estimate bulk salinity of halite bearing aqueous fluid inclusions?. <i>Open Geosciences</i> , 2012, 4, 238-245.	1.7	7
48	Multi-Analytical Characterization of Minerals of the Bowieite–Kashinite Series From the Svetly Bor Complex, Urals, Russia, and Comparison With Worldwide Occurrences. <i>Canadian Mineralogist</i> , 2016, 54, 461-473.	1.0	7
49	Iron-rich talc as air-stable platform for magnetic two-dimensional materials. <i>Npj 2D Materials and Applications</i> , 2021, 5, .	7.9	7
50	The perfection of Raman spectroscopic gas densimeters. <i>Journal of Raman Spectroscopy</i> , 2021, 52, 1923-1948.	2.5	6
51	Platinum group minerals in chromitite bodies of the Santa Elena Nappe, Costa Rica: mineralogical characterization by electron microprobe and Raman-spectroscopy. <i>Boletín De La Sociedad Geológica Mexicana</i> , 2010, 62, 161-171.	0.3	6
52	Low temperature behaviour of natural saline fluid inclusions in saddle dolomite (Paleozoic, NW) Tj ETQq0 0 0 rgBT JOverlock 10 Tf 50 14	2.1	5
53	Electron Microprobe and Raman Spectroscopy Investigation of an Oxygen-Bearing Pt–Fe–Pd–Ni–Cu Compound from Nurali Chromitite (Southern Urals, Russia). <i>Microscopy and Microanalysis</i> , 2015, 21, 1070-1079.	0.4	5
54	Fossil gas explosions?. <i>Journal of Volcanology and Geothermal Research</i> , 1993, 56, 161-165.	2.1	3

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55	Dolomitisation and brecciation along fault zones in the Cantabrian mountains. <i>Journal of Geochemical Exploration</i> , 2000, 69-70, 153-158.	3.2	3
56	Electron microprobe and Raman spectroscopic investigation of monazite from chromitites of Cedrolina (Goiás State, Brazil). <i>Neues Jahrbuch Fur Mineralogie, Abhandlungen</i> , 2012, 189, 207-215.	0.3	3
57	European Current Research on Fluid Inclusions " ECROFI XXI Leoben (Austria). <i>Open Geosciences</i> , 2012, 4, 205-207.	1.7	3
58	Thalhammerite, Pd ₉ Ag ₂ Bi ₂ S ₄ , a New Mineral from the Talnakh and Oktyabrsk Deposits, Norilsk Region, Russia. <i>Minerals (Basel, Switzerland)</i> , 2018, 8, 339.	2.0	3
59	The evolution of the Epaniite epidote-bearing pegmatite, Republic of Macedonia: evidence from mineralogical and geochemical features. <i>Geologia Croatica</i> , 2012, 65, 423-434.	0.8	3
60	The Chah-Mesi epithermal Cu-Pb-Zn-(Ag-Au) deposit and its link to the Meiduk porphyry copper deposit, SE Iran: Evidence from sulfosalt chemistry and fluid inclusions. <i>Ore Geology Reviews</i> , 2022, 142, 104732.	2.7	3
61	Comment on "Effect of the vapor phase on the salinity of halite-bearing aqueous fluid inclusions estimated from the halite dissolution temperature" by M. Steele-MacInnis and R.J. Bodnar. <i>Geochimica Et Cosmochimica Acta</i> , 2014, 135, 350-353.	3.9	2
62	High Temperature Reduced Granulite-Facies Nature of Garnetites in the Khabarny Mafic-Ultramafic Massif, Southern Urals: Evidence from Fluid and Mineral Analyses. <i>Journal of Petrology</i> , 2020, 61, .	2.8	2
63	Reply to Boivin and Gourgaud's discussion of the paper "Fossil gas explosions". <i>Journal of Volcanology and Geothermal Research</i> , 1994, 63, 107-109.	2.1	0
64	Reactions in fluid inclusions in plagioclase: Thermodynamic modelling, constrains on PT paths and a natural example. <i>Journal of Geochemical Exploration</i> , 2003, 78-79, 23-26.	3.2	0