

Holger Ott

List of Publications by Year in descending order

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Version: 2024-02-01

62
papers

2,904
citations

201674

27
h-index

161849

54
g-index

63
all docs

63
docs citations

63
times ranked

2811
citing authors

#	ARTICLE	IF	CITATIONS
1	Development of foam-like emulsion phases in porous media flow. Journal of Colloid and Interface Science, 2022, 608, 1064-1073.	9.4	8
2	Comparability of in situ crude oil emulsification in phase equilibrium and under porous-media-flow conditions. Journal of Colloid and Interface Science, 2022, 615, 196-205.	9.4	8
3	Salt precipitation due to supercritical gas injection: II. Capillary transport in multi porosity rocks. International Journal of Greenhouse Gas Control, 2021, 105, 103233.	4.6	14
4	Explicit continuum scale modeling of low-salinity mechanisms. Journal of Petroleum Science and Engineering, 2021, 199, 108336.	4.2	2
5	Mechanistic study of the carbonated smart water in carbonate reservoirs. , 2021, 11, 661-681.		7
6	The Origin of Non-thermal Fluctuations in Multiphase Flow in Porous Media. Frontiers in Water, 2021, 3, .	2.3	19
7	Performance Quantification of Enhanced Oil Recovery Methods in Fractured Reservoirs. Energies, 2021, 14, 4739.	3.1	12
8	Relationship Between Microbial Growth and Hydraulic Properties at the Sub-Pore Scale. Transport in Porous Media, 2021, 139, 579-593.	2.6	13
9	Coupling of CO ₂ and epoxides catalysed by novel N-fused mesoionic carbene complexes of nickel(Ni^{2+}). Dalton Transactions, 2021, 50, 17361-17371.	3.3	7
10	Fluid-phase topology of complex displacements in porous media. Physical Review Research, 2020, 2, .	3.6	15
11	Novel Digital Rock Simulation Approach in Characterizing Gas Trapping by Modified Morphological Workflow. , 2020, , .		0
12	Underground hydrogen storage: application of geochemical modelling in a case study in the Molasse Basin, Upper Austria. Environmental Earth Sciences, 2019, 78, 1.	2.7	68
13	The Effect of Mixed Wettability on Pore-Scale Flow Regimes Based on a Flooding Experiment in Ketton Limestone. Geophysical Research Letters, 2019, 46, 3225-3234.	4.0	76
14	Quantum Crystallography: Current Developments and Future Perspectives. Chemistry - A European Journal, 2018, 24, 10881-10905.	3.3	108
15	display="inline">c-Axis Dimer and Its Electronic Breakup: The Insulator-to-Metal Transition in TiO_3 Physical Review X, 2018, 8, .	8.9	19
16	CAPOW: a standalone program for the calculation of optimal weighting parameters for least-squares crystallographic refinements. Journal of Applied Crystallography, 2018, 51, 200-204.	4.5	0
17	Frontispiece: Quantum Crystallography: Current Developments and Future Perspectives. Chemistry - A European Journal, 2018, 24, .	3.3	1
18	Uniaxial Complex Relative Permittivity Tensor Measurement of Rocks From 40 Hz to 4.5 GHz. IEEE Transactions on Geoscience and Remote Sensing, 2017, 55, 1125-1139.	6.3	6

#	ARTICLE	IF	CITATIONS
19	Multiphase Modelling of Wormhole Formation in Carbonates by the Injection of CO ₂ . Energy Procedia, 2017, 114, 2972-2984.	1.8	16
20	Multiscale Description of Shale Pore Systems by Scanning SAXS and WAXS Microscopy. Energy & Fuels, 2016, 30, 10282-10297.	5.1	92
21	Binary Polyazides of Zinc. European Journal of Inorganic Chemistry, 2016, 2016, 5594-5609.	2.0	7
22	Connected pathway relative permeability from pore-scale imaging of imbibition. Advances in Water Resources, 2016, 90, 24-35.	3.8	113
23	Bridging Pore and Macroscopic Scale - Scanning SAXS-WAXS Microscopy Applied to Shales. , 2016, , .		0
24	Nanoscale imaging of pore-scale fluid-fluid-solid contacts in sandstone. Geophysical Research Letters, 2015, 42, 2189-2195.	4.0	86
25	Capillary saturation and desaturation. Physical Review E, 2015, 92, 063023.	2.1	38
26	From connected pathway flow to ganglion dynamics. Geophysical Research Letters, 2015, 42, 3888-3894.	4.0	204
27	Wormhole formation and compact dissolution in single- and two-phase CO ₂ -brine injections. Geophysical Research Letters, 2015, 42, 2270-2276.	4.0	74
28	CO ₂ -brine displacement in heterogeneous carbonates. International Journal of Greenhouse Gas Control, 2015, 33, 135-144.	4.6	55
29	Salt precipitation due to supercritical gas injection: I. Capillary-driven flow in unimodal sandstone. International Journal of Greenhouse Gas Control, 2015, 43, 247-255.	4.6	82
30	Microscale solute transport and precipitation in complex rock during drying. Geophysical Research Letters, 2014, 41, 8369-8376.	4.0	39
31	$\frac{1}{4}$ -CT analysis and numerical simulation of drying effects of CO ₂ injection into brine-saturated porous media. International Journal of Greenhouse Gas Control, 2014, 27, 146-154.	4.6	45
32	Critical capillary number: Desaturation studied with fast X-ray computed microtomography. Geophysical Research Letters, 2014, 41, 55-60.	4.0	138
33	Subsecond pore-scale displacement processes and relaxation dynamics in multiphase flow. Water Resources Research, 2014, 50, 9162-9176.	4.2	49
34	Displacement and mass transfer between saturated and unsaturated CO ₂ -brine systems in sandstone. International Journal of Greenhouse Gas Control, 2013, 12, 478-492.	4.6	148
35	$\frac{1}{4}$ -CT analysis and numerical simulation of drying effects of CO ₂ injection into brine-saturated porous media. International Journal of Greenhouse Gas Control, 2014, 27, 146-154.	3.2	7
36	Salt Precipitation Due to Sc-gas Injection: Single Versus Multi-porosity Rocks. Energy Procedia, 2013, 37, 3319-3330.	1.8	26

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37	Stability of CO ₂ -Brine Primary Drainage. Energy Procedia, 2013, 37, 4568-4574.	1.8	5
38	Pore-scale micro-computed-tomography imaging: Nonwetting-phase cluster-size distribution during drainage and imbibition. Physical Review E, 2013, 88, 033002.	2.1	89
39	Real-time 3D imaging of Haines jumps in porous media flow. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 3755-3759.	7.1	490
40	Core-flood experiment for transport of reactive fluids in rocks. Review of Scientific Instruments, 2012, 83, 084501.	1.3	35
41	Symmetry of Orbital Order in FeO_4 Studied by X-Ray Diffraction. Physical Review Letters, 2012, 108, 227203.	7.8	21
42	Resonant soft x-ray scattering from stepped surfaces of SrTiO ₃ . Journal of Physics Condensed Matter, 2012, 24, 035501.	1.8	13
43	Displacement and Mass Transfer of CO ₂ /Brine in Sandstone. Energy Procedia, 2012, 23, 512-520.	1.8	15
44	Pore-Scale Micro-CT Imaging: Cluster Size Distribution During Drainage and Imbibition. Energy Procedia, 2012, 23, 521-526.	1.8	8
45	Stability of CO ₂ -brine immiscible displacement. International Journal of Greenhouse Gas Control, 2012, 11, 188-203.	4.6	107
46	Magnetic Domain Fluctuations in an Antiferromagnetic Film Observed with Coherent Resonant Soft X-Ray Scattering. Physical Review Letters, 2011, 106, 077402.	7.8	31
47	Injection of supercritical CO ₂ in brine saturated sandstone: Pattern formation during salt precipitation. Energy Procedia, 2011, 4, 4425-4432.	1.8	60
48	Intrinsic and extrinsic x-ray absorption effects in soft x-ray diffraction from the superstructure in magnetite. Physical Review B, 2011, 83, .	3.2	8
49	Depth-resolved magnetic structure across the ferromagnetic to helical-antiferromagnetic phase transition in Dy/W(110). Physical Review B, 2010, 82, .	3.2	5
50	Local electronic structure of FeO_2 in MgO thin films: Temperature-dependent soft x-ray absorption spectroscopy study. Physical Review B, 2010, 82, .	3.2	29
51	Direct Observation of t_2g Ordering in Magnetite. Physical Review Letters, 2008, 100, 026406.	7.7	77
52	Soft x-ray magnetic circular dichroism study on Gd-doped EuO thin films. Physical Review B, 2006, 73, .	3.2	75
53	Magnetic x-ray scattering at the M ₅ absorption edge of Ho. Physical Review B, 2006, 74, .	3.2	24
54	Magnetic depth profiles from resonant soft x-ray scattering: Application to Dy thin films. Applied Physics Letters, 2006, 88, 212507.	3.3	11

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55	Resonant magnetic X-ray scattering at the lanthanide M ₅ edges. Physica B: Condensed Matter, 2005, 357, 16-21.	2.7	5
56	Spectroscopy of Stripe Order in La _{1.8} Sr _{0.2} NiO ₄ Using Resonant Soft X-Ray Diffraction. Physical Review Letters, 2005, 95, 156402.	7.8	59
57	Probing complex magnetic structures in thin films: Resonant magnetic soft x-ray scattering at the lanthanide M ₅ edges. Synchrotron Radiation News, 2004, 17, 11-15.	0.8	1
58	Finite-Size Effect on Magnetic Ordering Temperatures in Long-Period Antiferromagnets: Holmium Thin Films. Physical Review Letters, 2004, 93, 157204.	7.8	83
59	Oxygen-induced magnetic surface states on the (0001) surfaces of heavy lanthanide metals. Physical Review B, 2002, 65, .	3.2	8
60	Magnetic effects in the band structure of ferromagnetic and antiferromagnetic lanthanide metal films. Journal of Electron Spectroscopy and Related Phenomena, 2001, 114-116, 795-799.	1.7	2
61	Resonant magnetic X-ray scattering from ultrathin Ho metal films down to a few atomic layers. Journal of Electron Spectroscopy and Related Phenomena, 2001, 114-116, 953-957.	1.7	23
62	Magnetically ordered surface oxide on Gd(0001). Physical Review B, 1999, 60, 3449-3452.	3.2	18