Jrgen Klepp

List of Publications by Citations

26 papers	384 citations	11 h-index	19 g-index
28 ext. papers	425 ext. citations	3.1 avg, IF	2.91 L-index

#	Paper	IF	Citations
26	Changes of Ni biogeochemistry in the rhizosphere of the hyperaccumulator Thlaspi goesingense. *Plant and Soil*, **2005**, 271, 205-218	4.2	89
25	Assessing the potential for CO2 adsorption in a subbituminous coal, Huntly Coalfield, New Zealand, using small angle scattering techniques. *International Journal of Coal Geology*, **2009**, 77, 54-68	5.5	47
24	Photopolymerizable nanocomposite photonic materials and their holographic applications in light and neutron optics. *Journal of Modern Optics*, **2016**, 63, S1-S31	1.1	46
23	Fundamental phenomena of quantum mechanics explored with neutron interferometers. *Progress of Theoretical and Experimental Physics*, **2014**, 2014,	5.4	27
22	Evidence for entanglement and full tomographic analysis of Bell states in a single-neutron system. *Physical Review A*, **2007**, 76,	2.6	22
21	Location and distribution of inorganic material in a low ash yield, subbituminous coal. *International Journal of Coal Geology*, **2012**, 94, 173-181	5.5	21
20	Observation of nonadditive mixed-state phases with polarized neutrons. *Physical Review Letters*, **2008**, 101, 150404	7.4	20
19	Diffraction of slow neutrons by holographic SiO2 nanoparticle-polymer composite gratings. *Physical Review A*, **2011**, 84,	2.6	18
18	Nanoparticle polymer composite volume gratings incorporating chain transfer agents for holography and slow-neutron optics. *Optics Letters*, **2014**, 39, 3453-6	3	17
17	Holographic Gratings for Slow-Neutron Optics. *Materials*, **2012**, 5, 2788-2815	3.5	15
16	Effects of chain-transferring thiol functionalities on the performance of nanoparticle-polymer composite volume gratings. *Optics Letters*, **2014**, 39, 6743-6	3	12
15	An experimental study on the validity of diffraction theories for off-Bragg replay of volume holographic gratings. *Applied Physics B: Lasers and Optics*, **2012**, 108, 89-96	1.9	10
14	Evolution of nematic and ferromagnetic ordering in suspensions of magnetic nanoplatelets. *Soft Matter*, **2019**, 15, 5412-5420	3.6	9
13	Falsification of Leggetts model using neutron matter waves. *New Journal of Physics*, **2012**, 14, 023039	2.9	7
12	A Comprehensive Study of Photorefractive Properties in Poly(ethylene glycol) Dimethacrylate-Ionic Liquid Composites. *Materials*, **2016**, 10,	3.5	6
11	Far-off-Bragg reconstruction of volume holographic gratings: A comparison of experiment and theories. *Physical Review A*, **2013**, 87,	2.6	6
10	Focusing and imaging of cold neutrons with a permanent magnetic lens. *Review of Scientific Instruments*, **2020**, 91, 013704	1.7	3

List of Publications

9	Light- and Neutron-Optical Properties of Holographic Transmission Gratings from Polymer-Ionic Liquid Composites with Submicron Grating Spacing. *Polymers*, **2019**, 11,	4.5	2
8	Fabrication of nanodiamond-dispersed composite holographic gratings and their light and slow-neutron diffraction properties. *Physical Review Applied*, **2020**, 14,	4.3	2
7	Properties of diffraction gratings holographically recorded in poly(ethylene glycol)dimethacrylate-ionic liquid composites **2017**,		1
6	Retrieving the refractive index profile of a holographic grating by diffraction experiments **2019**,		1
5	Feasibility of Probing the Filler Restructuring in Magnetoactive Elastomers by Ultra-Small-Angle Neutron Scattering. *Applied Sciences (Switzerland)*, **2021**, 11, 4470	2.6	1
4	Advancing data analysis for reflectivity measurements of holographic nanocomposite gratings. *Journal of Physics: Conference Series*, **2016**, 746, 012022	0.3	1
3	Monte-Carlo simulation of neutron transmission through nanocomposite materials for neutron-optics applications. *Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*, **2019**, 916, 154-157	1.2	1
2	Light diffraction from a phase grating at oblique incidence in the intermediate diffraction regime. *Applied Physics B: Lasers and Optics*, **2021**, 127, 1	1.9	0
1	Experimental determination of nanocomposite grating structures by light- and neutron-diffraction in the multi-wave-coupling regime. *Optics Express*, **2021**, 29, 16153-16163	3.3	