

Martin Fally

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

78
papers

762
citations

17
h-index

21
g-index

86
ext. papers

835
ext. citations

2.5
avg, IF

3.47
L-index

#	Paper	IF	Citations
78	Experimental determination of nanocomposite grating structures by light- and neutron-diffraction in the multi-wave-coupling regime. <i>Optics Express</i> , 2021 , 29, 16153-16163	3.3	
77	Light diffraction from a phase grating at oblique incidence in the intermediate diffraction regime. <i>Applied Physics B: Lasers and Optics</i> , 2021 , 127, 1	1.9	0
76	Fabrication of nanodiamond-dispersed composite holographic gratings and their light and slow-neutron diffraction properties. <i>Physical Review Applied</i> , 2020 , 14,	4.3	2
75	Light- and Neutron-Optical Properties of Holographic Transmission Gratings from Polymer-Ionic Liquid Composites with Submicron Grating Spacing. <i>Polymers</i> , 2019 , 11,	4.5	2
74	Retrieving the refractive index profile of a holographic grating by diffraction experiments 2019 ,		1
73	Monte-Carlo simulation of neutron transmission through nanocomposite materials for neutron-optics applications. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2019 , 916, 154-157	1.2	1
72	Neutron diffraction from superparamagnetic colloidal crystals. <i>Journal of Physics and Chemistry of Solids</i> , 2017 , 110, 234-240	3.9	3
71	Properties of diffraction gratings holographically recorded in poly(ethylene glycol)dimethacrylate-ionic liquid composites 2017 ,		1
70	Photopolymerizable nanocomposite photonic materials and their holographic applications in light and neutron optics. <i>Journal of Modern Optics</i> , 2016 , 63, S1-S31	1.1	46
69	A Comprehensive Study of Photorefractive Properties in Poly(ethylene glycol) Dimethacrylate-Ionic Liquid Composites. <i>Materials</i> , 2016 , 10,	3.5	6
68	Peculiar behaviour of optical polarization gratings in light-sensitive liquid crystalline elastomers. <i>Optical Materials Express</i> , 2016 , 6, 961	2.6	5
67	Advancing data analysis for reflectivity measurements of holographic nanocomposite gratings. <i>Journal of Physics: Conference Series</i> , 2016 , 746, 012022	0.3	1
66	Two glass transitions of polyurea networks: effect of the segmental molecular weight. <i>Soft Matter</i> , 2014 , 10, 5729-38	3.6	32
65	Nanoparticle polymer composite volume gratings incorporating chain transfer agents for holography and slow-neutron optics. <i>Optics Letters</i> , 2014 , 39, 3453-6	3	17
64	Effects of chain-transferring thiol functionalities on the performance of nanoparticle-polymer composite volume gratings. <i>Optics Letters</i> , 2014 , 39, 6743-6	3	12
63	Far-off-Bragg reconstruction of volume holographic gratings: A comparison of experiment and theories. <i>Physical Review A</i> , 2013 , 87,	2.6	6
62	Three-port beam splitter for slow neutrons using holographic nanoparticle-polymer composite diffraction gratings. <i>Applied Physics Letters</i> , 2012 , 101, 154104	3.4	15

61	An experimental study on the validity of diffraction theories for off-Bragg replay of volume holographic gratings. <i>Applied Physics B: Lasers and Optics</i> , 2012 , 108, 89-96	1.9	10
60	Holography and Optical Storage 2012 , 1519-1568		
59	Holographic Gratings for Slow-Neutron Optics. <i>Materials</i> , 2012 , 5, 2788-2815	3.5	15
58	Mirrors for slow neutrons from holographic nanoparticle-polymer free-standing film-gratings. <i>Applied Physics Letters</i> , 2012 , 100, 214104	3.4	19
57	Towards polarizing beam splitters for cold neutrons using superparamagnetic diffraction gratings. <i>Journal of Physics: Conference Series</i> , 2012 , 340, 012031	0.3	4
56	Neutron-optical gratings from nanoparticle-polymer composites. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2011 , 634, S59-S62	1.2	7
55	Diffraction of slow neutrons by holographic SiO ₂ nanoparticle-polymer composite gratings. <i>Physical Review A</i> , 2011 , 84,	2.6	18
54	Depth profile of optically recorded patterns in light-sensitive liquid-crystal elastomers. <i>Physical Review E</i> , 2011 , 84, 031707	2.4	12
53	Neutron optical beam splitter from holographically structured nanoparticle-polymer composites. <i>Physical Review Letters</i> , 2010 , 105, 123904	7.4	37
52	Diffraction gratings for neutrons from polymers and holographic polymer-dispersed liquid crystals. <i>Journal of Optics</i> , 2009 , 11, 024019		10
51	Out-of-phase mixed holographic gratings : a quantative analysis: erratum. <i>Optics Express</i> , 2009 , 17, 23350.3		8
50	Out-of-phase mixed holographic gratings: a quantative analysis. <i>Optics Express</i> , 2008 , 16, 6528-36	3.3	20
49	Effect of electric field and temperature on holographic scattering from holographic polymer-dispersed liquid crystals. <i>Optical Materials</i> , 2007 , 29, 1416-1422	3.3	9
48	Absorbance kinetics of dye-doped systems with photochemical first order kinetics. <i>Physica Status Solidi (B): Basic Research</i> , 2007 , 244, 2138-2150	1.3	7
47	One-dimensional incoherently coupled grey solitons in two-photon photorefractive media. <i>Applied Physics B: Lasers and Optics</i> , 2007 , 87, 469-473	1.9	17
46	A Method to Determine H ⁺ Concentration in Dehydrated Iron Doped Lithium Niobate Using Photorefractive Beam Fanning Effect. <i>Ferroelectrics</i> , 2007 , 352, 118-124	0.6	1
45	Neutron diffraction from holographic polymer-dispersed liquid crystals 2007 ,		1
44	Bleaching kinetics of indoly-benzylfulgimide in PMMA. <i>Physica Status Solidi (B): Basic Research</i> , 2007 , 244, 1363-1375	1.3	1

43	Holography and Optical Storage 2007 , 1205-1249		2
42	Role of optical extinction in holographic polymer-dispersed liquid crystals 2007 ,		3
41	Neutron Physics with Photorefractive Materials 2007 , 321-353		
40	Colossal light-induced refractive-index modulation for neutrons in holographic polymer-dispersed liquid crystals. <i>Physical Review Letters</i> , 2006 , 97, 167803	7.4	13
39	Temperature dependence of optical anisotropy of holographic polymer-dispersed liquid crystal transmission gratings. <i>Physical Review E</i> , 2006 , 74, 021707	2.4	26
38	Holographic light scattering in centrosymmetric sodium nitroprusside upon generation of light-induced metastable states. <i>Physical Review B</i> , 2006 , 73,	3.3	11
37	Photochromism of doped terbium gallium garnet. <i>Physical Review B</i> , 2006 , 74,	3.3	32
36	Separate and simultaneous investigation of absorption gratings and refractive-index gratings by beam-coupling analysis: comment. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2006 , 23, 2662-3	1.8	6
35	Light-induced phase and amplitude gratings in centrosymmetric Gadolinium Gallium garnet doped with calcium. <i>Optics Express</i> , 2006 , 14, 593-602	3.3	10
34	Interferometer for cold neutrons. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2006 , 560, 598-605	1.2	20
33	Holographic scattering in photopolymer-dispersed liquid crystals. <i>Applied Physics Letters</i> , 2005 , 87, 151101	1.4	25
32	Characterization of Polar Oxides by Photo-Induced Light Scattering 2005 , 163-188		4
31	Holographic scattering in the ultraviolet spectral range in iron-doped lithium niobate. <i>Europhysics Letters</i> , 2005 , 70, 471-477	1.6	4
30	Specific recording kinetics as a general property of unconventional photorefractive media. <i>Physical Review Letters</i> , 2004 , 93, 243903	7.4	17
29	Angular and wavelength selectivity of parasitic holograms in cerium doped strontium barium niobate. <i>Journal of Applied Physics</i> , 2004 , 96, 6987-6993	2.5	9
28	Activation Energy of Proton Migration in Mn- and Fe-Doped Lithium Niobate Obtained by Holographic Methods. <i>Radiation Effects and Defects in Solids</i> , 2003 , 158, 173-179	0.9	1
27	The photo-neutronrefractive effect. <i>Applied Physics B: Lasers and Optics</i> , 2002 , 75, 405-426	1.9	20
26	How defects make holographic storage media tick. <i>Radiation Effects and Defects in Solids</i> , 2002 , 157, 1133-1137	0.9	

25	Activation energy of thermal fixing in LiNbO ₃ : a comparative study 2002 , 4607, 313		2
24	Light-induced extinction originating from holographic scattering. <i>Optics Letters</i> , 2002 , 27, 2185-7	3	12
23	Photoinduced light absorption and dichroism of Ca ₃ Mn ₂ Ge ₃ O ₁₂ garnet as a probe of electronic processes and intrinsic electric fields. <i>Low Temperature Physics</i> , 2001 , 27, 22	0.7	7
22	Thermal fixing of holographic gratings in nearly stoichiometric LiNbO ₃ crystals 2001 ,		2
21	Reconstruction of parasitic holograms to characterize photorefractive materials. <i>Applied Physics B: Lasers and Optics</i> , 2001 , 72, 635-640	1.9	14
20	Isotropic diffraction induced by concentration gratings in LiIO ₃ :Fe. <i>Optics Communications</i> , 2001 , 189, 151-159	2	7
19	Magnetic and optical anisotropy in garnets induced by spatially modulated elliptically polarized light. <i>Journal of Magnetism and Magnetic Materials</i> , 2001 , 226-230, 958-960	2.8	3
18	Holographic scattering as a technique to determine the activation energy for thermal fixing in photorefractive materials. <i>Applied Physics Letters</i> , 2001 , 78, 844-846	3.4	19
17	Comment on Origin of low-frequency dielectric dispersion in KH ₂ PO ₄ and RbH ₂ PO ₄ ferroelectric crystals <i>Physical Review B</i> , 2001 , 64,	3.3	7
16	Characterization of parasitic gratings in LiNbO ₃ . <i>Physical Review B</i> , 2000 , 61, 15778-15784	3.3	17
15	Neutron diffraction from thermally fixed gratings in photorefractive lithium niobate crystals. <i>Physical Review B</i> , 1999 , 60, R9896-R9899	3.3	17
14	Effect of dimensionality in polymeric fullerenes and single-wall nanotubes. <i>Physica B: Condensed Matter</i> , 1998 , 244, 186-191	2.8	12
13	Strain-stabilized precursor clusters in potassium thiocyanate. <i>Physical Review B</i> , 1998 , 58, 8362-8366	3.3	5
12	Non-exponential relaxation in macroscopic susceptibilities. <i>Phase Transitions</i> , 1998 , 65, 27-36	1.3	2
11	Quasi-one-dimensional response of the three-dimensional electronic systems AC60. <i>Physical Review B</i> , 1997 , 56, 13861-13864	3.3	10
10	Anomalous dielectric behaviour of crystals in the ferroelectric phase. <i>Journal of Physics Condensed Matter</i> , 1997 , 9, 723-733	1.8	16
9	Dielectric dispersions in ferroelectric KD ₂ AsO ₄ . <i>Ferroelectrics</i> , 1997 , 190, 43-49	0.6	1
8	Heat-diffusion Central Peak in homogeneous and inhomogeneous fields. <i>Ferroelectrics</i> , 1997 , 194, 161-176		

7	Heat-diffusion central peak in the dielectric susceptibility of ferroelectric materials. <i>Physical Review B</i> , 1996 , 53, 14769-14772	3.3	10
6	Ultraslow dynamics near structural phase transitions. <i>Ferroelectrics</i> , 1996 , 183, 115-121	0.6	1
5	Study of the dielectric behaviour of KH ₂ AsO ₄ and KD ₂ AsO ₄ in the ferroelectric phase. <i>Ferroelectrics</i> , 1995 , 172, 157-163	0.6	3
4	A dielectric study of the domain freezing in KH ₂ AsO ₄ . <i>Journal of Physics Condensed Matter</i> , 1995 , 7, 2205-2216	1.2	12
3	CENTRAL PEAK ANOMALIES IN MACROSCOPIC AND IN SCATTERING EXPERIMENTS DUE TO ENTROPY FLUCTUATIONS. <i>Modern Physics Letters B</i> , 1995 , 09, 1817-1838	1.6	7
2	A dielectric study of the domain freezing in KD ₂ AsO ₄ . <i>Journal of Physics Condensed Matter</i> , 1995 , 7, 2195-2204	1.7	17
1	Linear and nonlinear light scattering near the phase transition in KH ₂ PO ₄ . <i>Physical Review B</i> , 1994 , 49, 3082-3088	3.3	9