Martin Fally

List of Publications by Citations

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	Photopolymerizable nanocomposite photonic materials and their holographic applications in light and neutron optics. *Journal of Modern Optics*, **2016**, 63, S1-S31	1.1	46
77	Neutron optical beam splitter from holographically structured nanoparticle-polymer composites. *Physical Review Letters*, **2010**, 105, 123904	7.4	37
76	Two glass transitions of polyurea networks: effect of the segmental molecular weight. *Soft Matter*, **2014**, 10, 5729-38	3.6	32
75	Photochromism of doped terbium gallium garnet. *Physical Review B*, **2006**, 74,	3.3	32
74	Temperature dependence of optical anisotropy of holographic polymer-dispersed liquid crystal transmission gratings. *Physical Review E*, **2006**, 74, 021707	2.4	26
73	Holographic scattering in photopolymer-dispersed liquid crystals. *Applied Physics Letters*, **2005**, 87, 151101	3.4	25
72	Out-of-phase mixed holographic gratings: a quantative analysis. *Optics Express*, **2008**, 16, 6528-36	3.3	20
71	Interferometer for cold neutrons. *Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*, **2006**, 560, 598-605	1.2	20
70	The photo-neutronrefractive effect. *Applied Physics B: Lasers and Optics*, **2002**, 75, 405-426	1.9	20
69	Mirrors for slow neutrons from holographic nanoparticle-polymer free-standing film-gratings. *Applied Physics Letters*, **2012**, 100, 214104	3.4	19
68	Holographic scattering as a technique to determine the activation energy for thermal fixing in photorefractive materials. *Applied Physics Letters*, **2001**, 78, 844-846	3.4	19
67	Diffraction of slow neutrons by holographic SiO2 nanoparticle-polymer composite gratings. *Physical Review A*, **2011**, 84,	2.6	18
66	Nanoparticle polymer composite volume gratings incorporating chain transfer agents for holography and slow-neutron optics. *Optics Letters*, **2014**, 39, 3453-6	3	17
65	One-dimensional incoherently coupled grey solitons in two-photon photorefractive media. *Applied Physics B: Lasers and Optics*, **2007**, 87, 469-473	1.9	17
64	Specific recording kinetics as a general property of unconventional photorefractive media. *Physical Review Letters*, **2004**, 93, 243903	7.4	17
63	Characterization of parasitic gratings in LiNbO3. *Physical Review B*, **2000**, 61, 15778-15784	3.3	17
62	Neutron diffraction from thermally fixed gratings in photorefractive lithium niobate crystals. *Physical Review B*, **1999**, 60, R9896-R9899	3.3	17

61	A dielectric study of the domain freezing in KD2AsO4. *Journal of Physics Condensed Matter*, **1995**, 7, 2195-8204	1.8	17
60	Anomalous dielectric behaviour of crystals in the ferroelectric phase. *Journal of Physics Condensed Matter*, **1997**, 9, 723-733	1.8	16
59	Three-port beam splitter for slow neutrons using holographic nanoparticle-polymer composite diffraction gratings. *Applied Physics Letters*, **2012**, 101, 154104	3.4	15
58	Holographic Gratings for Slow-Neutron Optics. *Materials*, **2012**, 5, 2788-2815	3.5	15
57	Reconstruction of parasitic holograms to characterize photorefractive materials. *Applied Physics B: Lasers and Optics*, **2001**, 72, 635-640	1.9	14
56	Colossal light-induced refractive-index modulation for neutrons in holographic polymer-dispersed liquid crystals. *Physical Review Letters*, **2006**, 97, 167803	7.4	13
55	Effects of chain-transferring thiol functionalities on the performance of nanoparticle-polymer composite volume gratings. *Optics Letters*, **2014**, 39, 6743-6	3	12
54	Depth profile of optically recorded patterns in light-sensitive liquid-crystal elastomers. *Physical Review E*, **2011**, 84, 031707	2.4	12
53	Effect of dimensionality in polymeric fullerenes and single-wall nanotubes. *Physica B: Condensed Matter*, **1998**, 244, 186-191	2.8	12
52	Light-induced extinction originating from holographic scattering. *Optics Letters*, **2002**, 27, 2185-7	3	12
51	A dielectric study of the domain freezing in KH2AsO4. *Journal of Physics Condensed Matter*, **1995**, 7, 2205-8216	1.8	12
50	Holographic light scattering in centrosymmetric sodium nitroprusside upon generation of light-induced metastable states. *Physical Review B*, **2006**, 73,	3.3	11
49	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
48	Diffraction gratings for neutrons from polymers and holographic polymer-dispersed liquid crystals. *Journal of Optics*, **2009**, 11, 024019		10
47	Quasi-one-dimensional response of the three-dimensional electronic systems AC60. *Physical Review B*, **1997**, 56, 13861-13864	3.3	10
46	Light-induced phase and amplitude gratings in centrosymmetric Gadolinium Gallium garnet doped with calcium. *Optics Express*, **2006**, 14, 593-602	3.3	10
45	Heat-diffusion central peak in the dielectric susceptibility of ferroelectric materials. *Physical Review B*, **1996**, 53, 14769-14772	3.3	10
44	Effect of electric field and temperature on holographic scattering from holographic polymer-dispersed liquid crystals. *Optical Materials*, **2007**, 29, 1416-1422	3.3	9

43	Angular and wavelength selectivity of parasitic holograms in cerium doped strontium barium niobate. *Journal of Applied Physics*, **2004**, 96, 6987-6993	2.5	9
42	Linear and nonlinear light scattering near the phase transition in KH2PO4. *Physical Review B*, **1994**, 49, 3082-3088	3.3	9
41	Out-of-phase mixed holographic gratings : a quantative analysis: erratum. *Optics Express*, **2009**, 17, 23350	3.3	8
40	Neutron-optical gratings from nanoparticle-polymer composites. *Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*, **2011**, 634, S59-S62	1.2	7
39	Absorbance kinetics of dye-doped systems with photochemical first order kinetics. *Physica Status Solidi (B): Basic Research*, **2007**, 244, 2138-2150	1.3	7
38	Photoinduced light absorption and dichroism of Ca3Mn2Ge3O12 garnet as a probe of electronic processes and intrinsic electric fields. *Low Temperature Physics*, **2001**, 27, 22	0.7	7
37	Isotropic diffraction induced by concentration gratings in □LiIO3:Fe. *Optics Communications*, **2001**, 189, 151-159	2	7
36	Comment on □Origin of low-frequency dielectric dispersion in KH2PO4 and RbH2PO4 ferroelectric crystals□*Physical Review B*, **2001**, 64,	3.3	7
35	CENTRAL PEAK ANOMALIES IN MACROSCOPIC AND IN SCATTERING EXPERIMENTS DUE TO ENTROPY FLUCTUATIONS. *Modern Physics Letters B*, **1995**, 09, 1817-1838	1.6	7
34	A Comprehensive Study of Photorefractive Properties in Poly(ethylene glycol) Dimethacrylate-Ionic Liquid Composites. *Materials*, **2016**, 10,	3.5	6
33	Far-off-Bragg reconstruction of volume holographic gratings: A comparison of experiment and theories. *Physical Review A*, **2013**, 87,	2.6	6
32	Separate and simultaneous investigation of absorption gratings and refractive-index gratings by beam-coupling analysis: comment. *Journal of the Optical Society of America A: Optics and Image Science, and Vision*, **2006**, 23, 2662-3	1.8	6
31	Strain-stabilized precursor clusters in potassium thiocyanate. *Physical Review B*, **1998**, 58, 8362-8366	3.3	5
30	Peculiar behaviour of optical polarization gratings in light-sensitive liquid crystalline elastomers. *Optical Materials Express*, **2016**, 6, 961	2.6	5
29	Towards polarizing beam splitters for cold neutrons using superparamagnetic diffraction gratings. *Journal of Physics: Conference Series*, **2012**, 340, 012031	0.3	4
28	Characterization of Polar Oxides by Photo-Induced Light Scattering **2005**, 163-188		4
27	Holographic scattering in the ultraviolet spectral range in iron-doped lithium niobate. *Europhysics Letters*, **2005**, 70, 471-477	1.6	4
26	Neutron diffraction from superparamagnetic colloidal crystals. *Journal of Physics and Chemistry of Solids*, **2017**, 110, 234-240	3.9	3

25	Magnetic and optical anisotropy in garnets induced by spatially modulated elliptically polarized light. *Journal of Magnetism and Magnetic Materials*, **2001**, 226-230, 958-960	2.8	3
24	Study of the dielectric behaviour of KH2AsO4 and KD2AsO4 in the ferroelectric phase. *Ferroelectrics*, **1995**, 172, 157-163	0.6	3
23	Role of optical extinction in holographic polymer-dispersed liquid crystals **2007**,		3
22	Light- and Neutron-Optical Properties of Holographic Transmission Gratings from Polymer-Ionic Liquid Composites with Submicron Grating Spacing. *Polymers*, **2019**, 11,	4.5	2
21	Holography and Optical Storage **2007**, 1205-1249		2
20	Thermal fixing of holographic gratings in nearly stoichiometric LiNbO3 crystals **2001**,		2
19	Activation energy of thermal fixing in LiNbO3: a comparative study **2002**, 4607, 313		2
18	Non-exponential relaxation in macroscopic susceptibilities. *Phase Transitions*, **1998**, 65, 27-36	1.3	2
17	Fabrication of nanodiamond-dispersed composite holographic gratings and their light and slow-neutron diffraction properties. *Physical Review Applied*, **2020**, 14,	4.3	2
16	Properties of diffraction gratings holographically recorded in poly(ethylene glycol)dimethacrylate-ionic liquid composites **2017**,		1
15	Dielectric dispersions in ferroelectric KD2AsO4. *Ferroelectrics*, **1997**, 190, 43-49	0.6	1
14	A Method to Determine H+ Concentration in Dehydrated Iron Doped Lithium Niobate Using Photorefractive Beam Fanning Effect. *Ferroelectrics*, **2007**, 352, 118-124	0.6	1
13	Neutron diffraction from holographic polymer-dispersed liquid crystals **2007**,		1
12	Bleaching kinetics of indoly-benzylfulgimide in PMMA. *Physica Status Solidi (B): Basic Research*, **2007**, 244, 1363-1375	1.3	1
11	Activation Energy of Proton Migration in Mn- and Fe-Doped Lithium Niobate Obtained by Holographic Methods. *Radiation Effects and Defects in Solids*, **2003**, 158, 173-179	0.9	1
10	Ultraslow dynamics near structural phase transitions. *Ferroelectrics*, **1996**, 183, 115-121	0.6	1
9	Retrieving the refractive index profile of a holographic grating by diffraction experiments **2019**,		1
8	Advancing data analysis for reflectivity measurements of holographic nanocomposite gratings. *Journal of Physics: Conference Series*, **2016**, 746, 012022	0.3	1

7	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
6	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
5	Holography and Optical Storage **2012**, 1519-1568		
4	Heat-diffusion Central Peak in homogeneous and inhomogeneous fields. *Ferroelectrics*, **1997**, 194, 161-176	0.6	
3	How defects make holographic storage media tick. *Radiation Effects and Defects in Solids*, **2002**, 157, 1133-1137	0.9	
2	Neutron Physics with Photorefractive Materials **2007**, 321-353		
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	