

# Dean R Evans

## List of Publications by Year in descending order

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59  
papers

1,087  
citations

430754

18  
h-index

434063

31  
g-index

59  
all docs

59  
docs citations

59  
times ranked

800  
citing authors

#	ARTICLE	IF	CITATIONS
1	Dynamic control of ferroionic states in ferroelectric nanoparticles. <i>Acta Materialia</i> , 2022, 237, 118138.	3.8	2
2	Photoinduced trapping of charge at sulfur vacancies and copper ions in photorefractive Sn <sub>2</sub> P <sub>2</sub> S <sub>6</sub> crystals. <i>Journal of Applied Physics</i> , 2021, 129, 085702.	1.1	3
3	Flexo-elastic control factors of domain morphology in core-shell ferroelectric nanoparticles: Soft and rigid shells. <i>Acta Materialia</i> , 2021, 212, 116889.	3.8	9
4	Chiral polarization textures induced by the flexoelectric effect in ferroelectric nanocylinders. <i>Physical Review B</i> , 2021, 104, .	1.1	13
5	Controlling the domain structure of ferroelectric nanoparticles using tunable shells. <i>Acta Materialia</i> , 2020, 183, 36-50.	3.8	18
6	Charge trapping by iodine ions in photorefractive Sn <sub>2</sub> P <sub>2</sub> S <sub>6</sub> crystals. <i>Journal of Chemical Physics</i> , 2020, 153, 144503.	1.2	2
7	Electric field control of three-dimensional vortex states in core-shell ferroelectric nanoparticles. <i>Acta Materialia</i> , 2020, 200, 256-273.	3.8	21
8	Customization of Sn <sub>2</sub> P <sub>2</sub> S <sub>6</sub> ferroelectrics by post-growth solid-state diffusion doping. <i>Journal of Materials Chemistry C</i> , 2020, 8, 9975-9985.	2.7	4
9	Near-infrared-sensitive photorefractive Sn <sub>2</sub> P <sub>2</sub> S <sub>6</sub> crystals grown by the Bridgman method. <i>Journal of Applied Physics</i> , 2020, 127, 103103.	1.1	4
10	Director grating and two-beam energy exchange in a hybrid photorefractive cholesteric cell with a helicoidal polymer network. <i>Journal of Applied Physics</i> , 2020, 127, 125502.	1.1	0
11	Modelling the Surface Plasmon Spectra of an ITO Nanoribbon Grating Adjacent to a Liquid Crystal Layer. <i>Materials</i> , 2020, 13, 1523.	1.3	7
12	Temperature dependent resonant microwave absorption in perpendicular magnetic anisotropy epitaxial films of a spinel ferrite. <i>Journal of Applied Physics</i> , 2019, 125, .	1.1	5
13	Uncovering the mystery of ferroelectricity in zero dimensional nanoparticles. <i>Nanoscale Advances</i> , 2019, 1, 664-670.	2.2	35
14	Giant surfactants for the construction of automatic liquid crystal alignment layers. <i>Journal of Materials Chemistry C</i> , 2019, 7, 8500-8514.	2.7	16
15	Spectrally tunable chiral Bragg reflectors for on-demand beam generation. <i>Optics Express</i> , 2019, 27, 16571.	1.7	6
16	Solid-state characterization of CdTe:Sn as a medium for adaptive interferometry. , 2019, , .		0
17	Surface plasmon absorption in MoS <sub>2</sub> and graphene-MoS <sub>2</sub> micro-gratings and the impact of a liquid crystal substrate. <i>AIP Advances</i> , 2018, 8, 045024.	0.6	14
18	Spectroscopic studies of the effects of mechanochemical synthesis on BaTiO <sub>3</sub> nanocolloids prepared using high-energy ball-milling. <i>Journal of Applied Physics</i> , 2018, 124, .	1.1	14

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19	Photosensitive center in CdTe:Sn: photorefractive, spectroscopic, and magneto-optical studies. Journal of the Optical Society of America B: Optical Physics, 2018, 35, 2036.	0.9	3
20	Using liquid crystals to control surface plasmons. Liquid Crystals, 2018, 45, 2010-2021.	0.9	8
21	Hyperbolic decay of photo-created Sb <sup>2+</sup> ions in Sn <sub>2</sub> P <sub>2</sub> S <sub>6</sub> :Sb crystals detected with electron paramagnetic resonance. Applied Physics Letters, 2017, 110, 052903.	1.5	6
22	Molecular catalysis at polarized interfaces created by ferroelectric BaTiO <sub>3</sub> . Chemical Science, 2017, 8, 2790-2794.	3.7	20
23	Liquid crystal control of the plasmon resonances at terahertz frequencies in graphene microribbon gratings. Physical Review E, 2017, 96, 022703.	0.8	6
24	Temporal dynamics of two-beam coupling and the origin of compensation photorefractive gratings in Sn <sub>2</sub> P <sub>2</sub> S <sub>6</sub> :Sb. Optical Materials Express, 2017, 7, 1414.	1.6	5
25	Dual role of Sb ions as electron traps and hole traps in photorefractive Sn <sub>2</sub> P <sub>2</sub> S <sub>6</sub> crystals. Optical Materials Express, 2016, 6, 3992.	1.6	5
26	Sn vacancies in photorefractive Sn <sub>2</sub> P <sub>2</sub> S <sub>6</sub> crystals: An electron paramagnetic resonance study of an optically active hole trap. Journal of Applied Physics, 2016, 120, .	1.1	13
27	Identification of the specific Fe centers and associated defect structure responsible for enhanced dynamic holography in photorefractive $\text{KNbO}_3$ . Physical Review B, 2016, 93, .		8
28	Doping liquid crystals with nanoparticles. A computer simulation of the effects of nanoparticle shape. Physical Chemistry Chemical Physics, 2016, 18, 2428-2441.	1.3	32
29	Inorganic-Organic Photorefractive Hybrids. Springer Series in Materials Science, 2016, , 223-247.	0.4	6
30	Liquid Crystal Control of Surface Plasmon Resonance Sensor Based on Nanorods. Molecular Crystals and Liquid Crystals, 2015, 613, 110-120.	0.4	3
31	Sulfur vacancies in photorefractive Sn <sub>2</sub> P <sub>2</sub> S <sub>6</sub> crystals. Journal of Applied Physics, 2014, 116, .	1.1	6
32	Optimizing nonlinear beam coupling in low-symmetry crystals. Optics Express, 2014, 22, 24763.	1.7	5
33	Beam coupling in hybrid photorefractive inorganic-cholesteric liquid crystal cells: Impact of optical rotation. Journal of Applied Physics, 2014, 115, 103103.	1.1	9
34	Electro-optical behaviour and dielectric dynamics of harvested ferroelectric LiNbO <sub>3</sub> nanoparticle-doped ferroelectric liquid crystal nanocolloids. RSC Advances, 2014, 4, 18529.	1.7	60
35	Intrinsic small polarons (Sn <sup>3+</sup> ions) in photorefractive Sn <sub>2</sub> P <sub>2</sub> S <sub>6</sub> crystals. Journal of Physics Condensed Matter, 2013, 25, 205501.	0.7	13
36	Two-Beam Energy Exchange in a Hybrid Photorefractive Inorganic-Cholesteric Cell. Molecular Crystals and Liquid Crystals, 2012, 560, 8-22.	0.4	11

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37	Doping the nematic liquid crystal 5CB with milled BaTiO <sub>3</sub> nanoparticles. Physical Review E, 2012, 86, 051704.	0.8	30
38	Critical behavior of director fluctuations in suspensions of ferroelectric nanoparticles in liquid crystals at the nematic to smectic-A phase transition. Physical Review E, 2012, 85, 021705.	0.8	15
39	ions in photorefractive SnP <sub>2</sub> nanoparticles. Physical Review E, 2012, 85, 021705.	1.1	16
40	Dipole moment and spontaneous polarization of ferroelectric nanoparticles in a nonpolar fluid suspension. Physical Review B, 2011, 84, .	1.1	59
41	Electric field interactions and aggregation dynamics of ferroelectric nanoparticles in isotropic fluid suspensions. Physical Review B, 2011, 84, .	1.1	35
42	Secondary photorefractive centers in Sn <sub>2</sub> P <sub>2</sub> S <sub>6</sub> :Sb crystals. Optics Letters, 2011, 36, 454.	1.7	14
43	Two-beam energy exchange in a hybrid photorefractive-flexoelectric liquid-crystal cell. Physical Review E, 2010, 81, 031705.	0.8	19
44	Asymmetric Fredericksz transitions from symmetric liquid crystal cells doped with harvested ferroelectric nanoparticles. Optics Express, 2010, 18, 17339.	1.7	66
45	Absolute instability in backward wave four-wave mixing: spatial effects. Journal of the Optical Society of America B: Optical Physics, 2010, 27, 1481.	0.9	2
46	Harvesting single ferroelectric domain stressed nanoparticles for optical and ferroic applications. Journal of Applied Physics, 2010, 108, .	1.1	45
47	Four-wave-mixing coherent oscillator with frequency shifted feedback and misaligned pump waves. Optics Letters, 2009, 34, 377.	1.7	8
48	Preparation of ferroelectric nanoparticles for their use in liquid crystalline colloids. Journal of Optics, 2009, 11, 024006.	1.5	63
49	Direct temperature dependence measurements of dark conductivity and two-beam coupling in LiNbO <sub>3</sub> :Fe. Optics Express, 2008, 16, 3993.	1.7	7
50	Nanoparticle doped organic-inorganic hybrid photorefractives. Optics Express, 2008, 16, 4015.	1.7	66
51	Anisotropic diffraction from photorefractive gratings and Pockels tensor of Sn <sub>2</sub> P <sub>2</sub> S <sub>6</sub> . Optics Express, 2008, 16, 16923.	1.7	6
52	BRAGG-MATCHED PHOTOREFRACTIVE TWO-BEAM COUPLING IN ORGANIC-INORGANIC HYBRIDS. Journal of Nonlinear Optical Physics and Materials, 2007, 16, 271-280.	1.1	27
53	Transient gain enhancement in photorefractive crystals with two types of movable charge carrier. Optics Letters, 2007, 32, 1959.	1.7	9
54	Major improvements of the photorefractive and photovoltaic properties in potassium niobate. Optics Letters, 2006, 31, 89.	1.7	10

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55	Substrate Induced Pre-tilt in Hybrid Liquid Crystal/Inorganic Photorefractives. <i>Molecular Crystals and Liquid Crystals</i> , 2006, 453, 141-153.	0.4	28
56	Anisotropy of nonlinear coupling of two counter-propagating waves in photorefractive Fe:KNbO <sub>3</sub> . <i>Physical Review B</i> , 2006, 73, .	1.1	6
57	Optical spectroscopy of localized electronic states in SrS:Cu. <i>Journal of Applied Physics</i> , 2003, 94, 3785-3790.	1.1	0
58	Optical absorption spectroscopy of Fe <sup>2+</sup> and Fe <sup>3+</sup> ions in LiNbO <sub>3</sub> . <i>Journal of Applied Physics</i> , 2002, 92, 7051-7055.	1.1	25
59	Trapping processes in CaS:Eu <sup>2+</sup> , Tm <sup>3+</sup> . <i>Journal of Applied Physics</i> , 2000, 88, 3402-3407.	1.1	139