

# Richard James

## List of Publications by Year in descending order

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20  
papers

324  
citations

933447

10  
h-index

888059

17  
g-index

20  
all docs

20  
docs citations

20  
times ranked

305  
citing authors

#	ARTICLE	IF	CITATIONS
1	Measurement of Dielectric Properties of Nematic Liquid Crystals at Millimeter Wavelength. IEEE Transactions on Microwave Theory and Techniques, 2010, , .	4.6	57
2	Calculation of Fully Anisotropic Liquid Crystal Waveguide Modes. Journal of Lightwave Technology, 2009, 27, 3812-3819.	4.6	45
3	Measurement of Dielectric Constants of Nematic Liquid Crystals at mm-Wave Frequencies Using Patch Resonator. IEEE Transactions on Instrumentation and Measurement, 2010, 59, 3079-3085.	4.7	44
4	Accurate Modeling for Wideband Characterization of Nematic Liquid Crystals for Microwave Applications. IEEE Transactions on Microwave Theory and Techniques, 2009, 57, 3293-3297.	4.6	34
5	Modeling of Weak Anisotropic Anchoring of Nematic Liquid Crystals in the Landau-de Gennes Theory. IEEE Transactions on Electron Devices, 2007, 54, 2630-2637.	3.0	24
6	Switching Dynamics of a Post-Aligned Bistable Nematic Liquid Crystal Device. Journal of Display Technology, 2008, 4, 276-281.	1.2	19
7	Radiation- and Bound-Mode Propagation in Rectangular, Multimode Dielectric, Channel Waveguides With Sidewall Roughness. Journal of Lightwave Technology, 2009, 27, 4151-4163.	4.6	16
8	Computer Modeling of Liquid Crystal Hydrodynamics. IEEE Transactions on Magnetics, 2008, 44, 814-817.	2.1	14
9	Effect of material properties on reverse flow in nematic liquid crystal devices with homeotropic alignment. Applied Physics Letters, 2009, 95, .	3.3	13
10	Modeling of the diffraction efficiency and polarization sensitivity for a liquid crystal 2D spatial light modulator for reconfigurable beam steering. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2007, 24, 2464.	1.5	11
11	Finite element analysis of a balanced microstrip line filled with nematic liquid crystal. , 2009, , .		11
12	Hydrodynamics of fringing-field induced defects in nematic liquid crystals. Journal of Applied Physics, 2021, 130, .	2.5	10
13	3D Modelling of High Resolution Devices. Molecular Crystals and Liquid Crystals, 2006, 450, 105/[305]-118/[318].	0.9	7
14	Effect of anchoring energy and elastic anisotropy on spherical inclusions in a nematic liquid crystal. Physical Review E, 2013, 88, 010501.	2.1	5
15	67.4: Defect Loops in the Zenithal Bistable Display. Digest of Technical Papers SID International Symposium, 2008, 39, 1034-1037.	0.3	4
16	Twist transition of nematic hyperbolic hedgehogs. Physical Review E, 2014, 89, 042501.	2.1	4
17	Effective dielectric constant of top grounded coplanar waveguide on liquid crystal superstrate. Microwave and Optical Technology Letters, 2013, 55, 1416-1418.	1.4	3
18	Accurate modelling for the analysis and design of liquid-crystal-based microwave devices. , 2017, , .		2

#	ARTICLE	IF	CITATIONS
19	48.4: Advanced Super-View Pixel Modeling. Digest of Technical Papers SID International Symposium, 2010, 41, 728-731.	0.3	1
20	Advances in LC characterization with application to development of mm-wave devices. , 2010, , .		0