

# Jong-Hyun Kim

## List of Publications by Year in descending order

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59  
papers

891  
citations

687363

13  
h-index

477307

29  
g-index

59  
all docs

59  
docs citations

59  
times ranked

744  
citing authors

#	ARTICLE	IF	CITATIONS
1	Tristable nematic liquid-crystal device using micropatterned surface alignment. <i>Nature</i> , 2002, 420, 159-162.	27.8	322
2	Surface alignment bistability of nematic liquid crystals by orientationally frustrated surface patterns. <i>Applied Physics Letters</i> , 2001, 78, 3055-3057.	3.3	117
3	Nano-rubbing of a liquid crystal alignment layer by an atomic force microscope: a detailed characterization. <i>Nanotechnology</i> , 2002, 13, 133-137.	2.6	69
4	Changes in the Raman spectra of monolayer MoS <sub>2</sub> upon thermal annealing. <i>Journal of Raman Spectroscopy</i> , 2018, 49, 1938-1944.	2.5	42
5	Mapping of the atomic lattice orientation of a graphite flake using macroscopic liquid crystal texture. <i>Nanotechnology</i> , 2012, 23, 395704.	2.6	26
6	Temperature effect on a rubbed polyimide alignment layer. <i>Journal of Applied Physics</i> , 2000, 87, 155-158.	2.5	22
7	Simple model for patterned bidirectional anchoring of nematic liquid crystal and its bistability. <i>Applied Physics Letters</i> , 2002, 80, 374-376.	3.3	22
8	Dynamic measurement for electric field sensor based on wavelength-swept laser. <i>Optics Express</i> , 2014, 22, 16139.	3.4	21
9	Rubbing strength dependence of surface interaction potential and surface-induced order above the nematic-isotropic transition. <i>Journal of Applied Physics</i> , 1998, 84, 6027-6033.	2.5	20
10	Depression of the nematic-isotropic phase transition temperature at nanopatterned surfaces. <i>Physical Review E</i> , 2002, 66, 041502.	2.1	17
11	Structural analysis of graphene synthesized by chemical vapor deposition on copper foil using nematic liquid crystal texture. <i>Carbon</i> , 2014, 76, 113-122.	10.3	17
12	High-resolution bistable nematic liquid crystal device realized on orientational surface patterns. <i>Applied Physics Letters</i> , 2003, 83, 3602-3604.	3.3	16
13	Fast electro-optic device controlled by dielectric response of planarly aligned cholesteric liquid crystals. <i>Journal of Applied Physics</i> , 2009, 106, 014503.	2.5	14
14	Optical retardation of rub-induced scratches in a polyimide-treated substrate. <i>Applied Physics Letters</i> , 1998, 72, 1917-1919.	3.3	12
15	Controlling Surface Alignment on Nanoscopically Tailored Competing Domains. <i>Molecular Crystals and Liquid Crystals</i> , 2001, 367, 151-158.	0.3	12
16	Ground state and peculiarity of particle interactions in liquid crystal colloids. <i>European Physical Journal E</i> , 2020, 43, 1.	1.6	12
17	The interaction of colloidal particles with weak homeotropic anchoring energy in homogeneous nematic liquid crystal cells. <i>Soft Matter</i> , 2014, 10, 2664.	2.7	11
18	Acoustic anisotropy in 5CB liquid crystal cells as determined by using Brillouin light scattering. <i>Journal of the Korean Physical Society</i> , 2012, 61, 862-866.	0.7	9

#	ARTICLE	IF	CITATIONS
19	Tunable, multiwavelength-swept fiber laser based on nematic liquid crystal device for fiber-optic electric-field sensor. <i>Optics Communications</i> , 2018, 410, 637-642.	2.1	9
20	Characterization of Second-Order Reflection Bands from a Cholesteric Liquid Crystal Cell Based on a Wavelength-Swept Laser. <i>Sensors</i> , 2020, 20, 4643.	3.8	8
21	In situ observation of dynamic pitch jumps of in-planar cholesteric liquid crystal layers based on wavelength-swept laser. <i>Optics Express</i> , 2018, 26, 28751.	3.4	8
22	Tilt angle change of nematic liquid crystal as a function of the number of graphite layers. <i>Liquid Crystals</i> , 2013, 40, 216-220.	2.2	7
23	Coulomb-like elastic interaction induced by symmetry breaking in nematic liquid crystal colloids. <i>Scientific Reports</i> , 2017, 7, 15916.	3.3	7
24	Multistability of nematic liquid crystals realized on microscopic orientation patterns. <i>Journal of Applied Physics</i> , 2007, 102, 036102.	2.5	6
25	Motion of a colloidal particle in a nonuniform director field of a nematic liquid crystal. <i>Physical Review E</i> , 2017, 95, 012709.	2.1	6
26	Measurement of Effective Refractive Index of Nematic Liquid Crystal in Fabry-Perot Etalon. <i>Journal of the Optical Society of Korea</i> , 2015, 19, 346-350.	0.6	6
27	Inter-particle interactions of weak homeotropic anchoring with electric field in a homogeneous nematic cell. <i>Liquid Crystals</i> , 2016, 43, 1589-1596.	2.2	5
28	Tuning photoluminescence spectra of MoS <sub>2</sub> with liquid crystals. <i>Nanoscale</i> , 2021, 13, 16641-16648.	5.6	5
29	Transmission Characteristics in Liquid-Crystal-Infiltrated Photonic Crystal Fibers. <i>Japanese Journal of Applied Physics</i> , 2008, 47, 2174-2175.	1.5	4
30	Magnetic-field-induced structural change of a two-dimensional colloid of glycerol droplets on a nematic liquid-crystal surface. <i>Physical Review E</i> , 2013, 87, .	2.1	4
31	Measurement of anchoring coefficient of homeotropically aligned nematic liquid crystal using a polarizing optical microscope in reflective mode. <i>AIP Advances</i> , 2015, 5, 097170.	1.3	4
32	Fine Bistable Device of Nematic Liquid Crystal Realized on Orientational Surface Patterns. <i>Molecular Crystals and Liquid Crystals</i> , 2005, 433, 41-49.	0.9	3
33	Technique for azimuthal anchoring measurement of nematic liquid crystals using magnetic field induced deformation. <i>Applied Physics Letters</i> , 2007, 90, 101908.	3.3	3
34	Measuring the Thickness of Flakes of Hexagonal Boron Nitride Using the Change in Zero-Contrast Wavelength of Optical Contrast. <i>Journal of the Optical Society of Korea</i> , 2015, 19, 503-507.	0.6	3
35	Electro-optic response of surface-induced nematic order above the nematic-isotropic phase transition temperature. <i>Physical Review E</i> , 1999, 60, 5600-5606.	2.1	2
36	Dielectric and Flexoelectric Responses of Nematic Liquid Crystals on Circularly Orientating Patterns. <i>Japanese Journal of Applied Physics</i> , 2007, 46, 1617-1619.	1.5	2

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37	Alignment characteristic of nematic liquid crystals on orientational patterns realized by interfering laser light. <i>Journal Physics D: Applied Physics</i> , 2008, 41, 045407.	2.8	2
38	Electro-optical Characteristics of Ferroelectric Liquid Crystal Embedded in Photonic Crystal Fiber. <i>Japanese Journal of Applied Physics</i> , 2013, 52, 051701.	1.5	2
39	Measuring nematic liquid crystal anchoring energy using whispering gallery modes. <i>Optics Express</i> , 2015, 23, 24903.	3.4	2
40	Analogue Orientation Control of a Carbon Fibre in a Nematic Liquid Crystal. <i>Scientific Reports</i> , 2019, 9, 20223.	3.3	2
41	Hacking detection based on the elastic properties of liquid crystals in different phases. <i>Optics Express</i> , 2021, 29, 39352.	3.4	2
42	Liquid Crystal Alignment on Electron Beam Irradiated Substrate. <i>Molecular Crystals and Liquid Crystals</i> , 2011, 546, 110/[1580]-115/[1585].	0.9	1
43	Relaxation of slow ions in nematic liquid crystal device. <i>Journal of the Korean Physical Society</i> , 2013, 63, 2024-2028.	0.7	1
44	Fiber optic dynamic electric field sensor based on nematic liquid crystal Fabry-Perot etalon. , 2014, , .		1
45	Asymmetric motion of bubble in nematic liquid crystal induced by symmetry-broken evaporation. <i>Europhysics Letters</i> , 2016, 115, 16002.	2.0	1
46	Optical Fluctuation of Texture in Nematic Liquid Crystal Droplets. <i>Journal of the Physical Society of Japan</i> , 2016, 85, 074601.	1.6	1
47	Study on the vertical alignment of nematic liquid crystals by fumed silica doping. <i>Molecular Crystals and Liquid Crystals</i> , 2018, 667, 16-24.	0.9	1
48	Surface-induced transition of nematic liquid crystals on graphene/SiC substrate. <i>Europhysics Letters</i> , 2018, 124, 46004.	2.0	1
49	Electrical Energy Harvesting from the Flexible Liquid Crystal Cells. <i>Journal of Physical Chemistry C</i> , 2021, 125, 22429-22434.	3.1	1
50	A bistable device of a nematic LC showing the sign reversal of the dielectric anisotropy. <i>Molecular Crystals and Liquid Crystals</i> , 2004, 410, 409-415.	0.9	0
51	Effective frequency-dependent anchoring coefficient and rotational viscosity of nematic liquid crystals. <i>Current Applied Physics</i> , 2013, 13, 990-995.	2.4	0
52	Effective Anchoring Energy of Nematic Liquid Crystals on Stripe Anchoring Patterns. <i>Japanese Journal of Applied Physics</i> , 2013, 52, 080201.	1.5	0
53	Measurement of effective refractive index of nematic liquid crystal. , 2014, , .		0
54	Fiber-optic electric field sensor based on wavelength-swept laser. , 2014, , .		0

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55	Electric field sensor based on cholesteric liquid crystal Fabry-Perot etalon. Proceedings of SPIE, 2015, , .	0.8	0
56	Measuring of the pitch variation of cholesteric liquid crystals under electric field using wavelength-swept laser. , 2017, , .		0
57	Tunable multiwavelength fiber laser based on nematic liquid crystal device for fiber-optic electric field sensor. , 2017, , .		0
58	Bidirectional rotation control of a carbon fiber in nematic liquid crystal using AC electric field. Scientific Reports, 2020, 10, 18650.	3.3	0
59	Ostwald Ripening of the Air Bubbles in Liquid Crystals. New Physics: Sae Mulli, 2018, 68, 501-507.	0.1	0