Vijay Pratap Singh

List of Publications by Year
in descending order

244	5,843	94433	144013
papers	citations	37 h-index	57 g-index

271	271	271	3513
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Dielectric and electro-optical properties of nematic liquid crystal p-methoxybenzylidene p-decylaniline dispersed with oil palm leaf based porous carbon quantum dots. Journal of Dispersion Science and Technology, 2023, 44, 942-951.	2.4	1
2	GABA Requires Nitric Oxide for Alleviating Arsenate Stress in Tomato and Brinjal Seedlings. Journal of Plant Growth Regulation, 2023, 42, 670-683.	5.1	12
3	An Appraisal of Ancient Molecule GABA in Abiotic Stress Tolerance in Plants, and Its Crosstalk with Other Signaling Molecules. Journal of Plant Growth Regulation, 2023, 42, 614-629.	5.1	11
4	Silicon and nitric oxideâ€mediated mechanisms of cadmium toxicity alleviation in wheat seedlings. Physiologia Plantarum, 2022, 174, .	5.2	39
5	Implication of Nitric Oxide Under Salinity Stress: The Possible Interaction with Other Signaling Molecules. Journal of Plant Growth Regulation, 2022, 41, 163-177.	5.1	24
6	Synergistic action of silicon nanoparticles and indole acetic acid in alleviation of chromium (CrVI) toxicity in Oryza sativa seedlings. Journal of Biotechnology, 2022, 343, 71-82.	3.8	47
7	Metalloids in plant biology: New avenues in their research. Journal of Hazardous Materials, 2022, 422, 126738.	12.4	3
8	Recent progress and future perspectives on carbon-nanomaterial-dispersed liquid crystal composites. Journal Physics D: Applied Physics, 2022, 55, 083002.	2.8	39
9	Silica nanoparticles: the rising star in plant disease protection. Trends in Plant Science, 2022, 27, 7-9.	8.8	16
10	Ferroelectric liquid crystals: futuristic mesogens for photonic applications. European Physical Journal: Special Topics, 2022, 231, 673-694.	2.6	9
11	Early diagnosis of lung cancer using magnetic nanoparticles-integrated systems. Nanotechnology Reviews, 2022, 11, 544-574.	5.8	22
12	Nanoparticles as a potential protective agent for arsenic toxicity alleviation in plants. Environmental Pollution, 2022, 300, 118887.	7.5	23
13	RIPK: a crucial ROS signaling component in plants. Trends in Plant Science, 2022, 27, 214-216.	8.8	7
14	Investigation of dielectric, optical and zeta potential properties of pure and zinc ferrite nanoparticles dispersed nematic liquid crystal PCH5. Applied Physics A: Materials Science and Processing, 2022, 128, 1.	2.3	7
15	Hot and dry: how plants can thrive in future climates. Plant Cell Reports, 2022, 41, 497-499.	5.6	6
16	Arsenite: the umpire of arsenate perception and responses in plants. Trends in Plant Science, 2022, 27, 420-422.	8.8	4
17	Greenly synthesized porous carbon nanoparticle (bioâ€wasteâ€based)â€doped nematic liquid crystal composite with optimized electric and electroâ€optical properties for devices. Journal of the Society for Information Display, 2022, 30, 621-634.	2.1	2
18	Application of zinc oxide nanoparticles as fertilizer boosts growth in rice plant and alleviates chromium stress by regulating genes involved in oxidative stress. Chemosphere, 2022, 303, 134554.	8.2	44

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19	Thermodynamic and spectroscopic characterization of a weakly polar liquid crystalline compound dispersed with polyvinyl pyrrolidone capped gold nanoparticles. Journal of Molecular Liquids, 2022, 354, 118889.	4.9	4
20	Heavy metal induced regulation of plant biology: Recent insights. Physiologia Plantarum, 2022, 174, e13688.	5.2	35
21	Nematic liquid crystals blended ferroelectric nanoparticles (BaTiO3): A perspective way for improving the response time and photoluminescence for electro-optical devices. Journal of Applied Physics, 2022, 131, .	2.5	12
22	HPCA1 and HSL3: two plasma membrane proteins that probably cooperate to modulate H2O2 signalling under drought conditions. Plant Growth Regulation, 2022, 98, 1-3.	3.4	3
23	Nitric oxide and hydrogen peroxide independently act in mitigating chromium stress in Triticum aestivum L. seedlings: Regulation of cell death, chromium uptake, antioxidant system, sulfur assimilation and proline metabolism. Plant Physiology and Biochemistry, 2022, 183, 76-84.	5.8	6
24	Iron oxide nanoparticles impart cross tolerance to arsenate stress in rice roots through involvement of nitric oxide. Environmental Pollution, 2022, 307, 119320.	7.5	10
25	Effect of Nitric Oxide on Seed Germination and Seedling Development of Tomato Under Chromium Toxicity. Journal of Plant Growth Regulation, 2021, 40, 2358-2370.	5.1	39
26	Magnetopriming effects on arsenic stressâ€induced morphological and physiological variations in soybean involving synchrotron imaging. Physiologia Plantarum, 2021, 173, 88-99.	5.2	12
27	Investigation of dielectric and optical properties of pure and diamond nanoparticles dispersed nematic liquid-crystal PCH5. Liquid Crystals, 2021, 48, 1257-1267.	2.2	9
28	Multiwall carbon nanotube-nematic liquid crystal composite system: preparation and characterization. Journal of Dispersion Science and Technology, 2021, 42, 707-714.	2.4	11
29	Regulation of ascorbate-glutathione cycle by exogenous nitric oxide and hydrogen peroxide in soybean roots under arsenate stress. Journal of Hazardous Materials, 2021, 409, 123686.	12.4	59
30	Auxin metabolic network regulates the plant response to metalloids stress. Journal of Hazardous Materials, 2021, 405, 124250.	12.4	47
31	Effect of oil palm leaf-based carbon quantum dot on nematic liquid crystal and its electro-optical effects. Liquid Crystals, 2021, 48, 812-831.	2.2	16
32	Structural modifications of plant organs and tissues by metals and metalloids in the environment: A review. Plant Physiology and Biochemistry, 2021, 159, 100-112.	5.8	46
33	Silicon crosstalk with reactive oxygen species, phytohormones and other signaling molecules. Journal of Hazardous Materials, 2021, 408, 124820.	12.4	55
34	Silicon induces adventitious root formation in rice under arsenate stress with involvement of nitric oxide and indole-3-acetic acid. Journal of Experimental Botany, 2021, 72, 4457-4471.	4.8	53
35	Mitigation of arsenate toxicity by indole-3-acetic acid in brinjal roots: Plausible association with endogenous hydrogen peroxide. Journal of Hazardous Materials, 2021, 405, 124336.	12.4	31
36	Histochemical Techniques in Plant Science: More Than Meets the Eye. Plant and Cell Physiology, 2021, 62, 1509-1527.	3.1	7

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37	Dielectric and electro-optical properties of ferric oxide nanoparticles doped 4-octyloxy-4â€™ cyanobiphenyl liquid crystal-based nanocomposites for advanced display systems. Liquid Crystals, 2021, 48, 923-934.	2.2	2
38	Electro-optical characterization of a weakly polar liquid crystalline compound influenced polyvinyl pyrrolidone capped gold nanoparticles. Journal of Molecular Liquids, 2021, 325, 115172.	4.9	7
39	The scientific duo of TiO2 nanoparticles and nematic liquid crystal E204: Increased absorbance, photoluminescence quenching and improving response time for electro-optical devices. Journal of Molecular Liquids, 2021, 325, 115130.	4.9	22
40	Thermoelectric improvement of the figure of merit of zinc phosphate glass composites by a likely tunnel percolation mechanism. Journal of Applied Physics, 2021, 129, 155110.	2.5	1
41	Ascorbate and glutathione independently alleviate arsenate toxicity in brinjal but both require endogenous nitric oxide. Physiologia Plantarum, 2021, 173, 276-286.	5.2	7
42	Effect of Doping of Cd1â^'xZnxS/ZnS Core/Shell Quantum Dots in Negative Dielectric Anisotropy Nematic Liquid Crystal p-Methoxybenzylidene p-Decylaniline. Crystals, 2021, 11, 605.	2.2	4
43	Modification in different physical parameters of orthoconic antiferroelectric liquid crystal mixture via the dispersion of hexanethiol capped silver nanoparticles. Journal of Molecular Liquids, 2021, 332, 115840.	4.9	7
44	Nitric oxide and hydrogen sulfide: an indispensable combination for plant functioning. Trends in Plant Science, 2021, 26, 1270-1285.	8.8	90
45	Hydrogen sulfide (H2S) underpins the beneficial silicon effects against the copper oxide nanoparticles (CuO NPs) phytotoxicity in Oryza sativa seedlings. Journal of Hazardous Materials, 2021, 415, 124907.	12.4	29
46	Superior improvement in dynamic response of liquid crystal lens using organic and inorganic nanocomposite. Scientific Reports, 2021, 11, 17349.	3.3	9
47	Endogenous indoleâ€3â€acetic acid and nitric oxide are required for calciumâ€mediated alleviation of copper oxide nanoparticles toxicity in wheat seedlings. Physiologia Plantarum, 2021, 173, 2262-2275.	5.2	5
48	Ambipolar Charge Transport Properties of Naphthophenanthridine Discotic Liquid Crystals. Journal of Physical Chemistry B, 2021, 125, 10364-10372.	2.6	12
49	New avenues of silicon research in plant biology. Plant Physiology and Biochemistry, 2021, 167, 955-957.	5.8	0
50	Silicon and nitric oxide interplay alleviates copper induced toxicity in mung bean seedlings. Plant Physiology and Biochemistry, 2021, 167, 713-722.	5.8	12
51	Exogenous addition of silicon alleviates metsulfuron methyl induced stress in wheat seedlings. Plant Physiology and Biochemistry, 2021, 167, 705-712.	5.8	9
52	Molecular ordering dependent charge transport in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si11.svg"><mml:mrow><mml:mi>Ï€</mml:mi></mml:mrow></mml:math>-stacked triphenylene based discotic liquid crystals and its correlation with dielectric properties. Journal of Molecular Liquids, 2021, 342, 117353.	4.9	12
53	Implication of nitric oxide and hydrogen sulfide signalling in alleviating arsenate stress in rice seedlings. Environmental Pollution, 2021, 291, 117958.	7.5	26
54	Ethylene needs endogenous hydrogen sulfide for alleviating hexavalent chromium stress in Vigna mungo L. and Vigna radiata L.. Environmental Pollution, 2021, 290, 117968.	7.5	21

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55	Fluorescence Spectrometry. Progress in Optical Science and Photonics, 2021, , 431-468.	0.5	0
56	Effect of carbonaceous oil palm leaf quantum dot dispersion in nematic liquid crystal on zeta potential, optical texture and dielectric properties. Journal of Nanostructure in Chemistry, 2021, 11, 527-548.	9.1	18
57	Carbon Nanotubes Blended Nematic Liquid Crystal for Display and Electro-Optical Applications. Electronic Materials, 2021, 2, 466-481.	1.9	14
58	Glutathione and hydrogen sulfide are required for sulfurâ€mediated mitigation of Cr(VI) toxicity in tomato, pea and brinjal seedlings. Physiologia Plantarum, 2020, 168, 406-421.	5.2	35
59	NO and ROS implications in the organization of root system architecture. Physiologia Plantarum, 2020, 168, 473-489.	5.2	26
60	Dielectric properties and activation energies of Cu: ZnO dispersed nematic mesogen N-(4-methoxybenzylidene)-4-butylaniline liquid crystal. Journal of Dispersion Science and Technology, 2020, 41, 1283-1290.	2.4	18
61	Nitric oxide in plants: an ancient molecule with new tasks. Plant Growth Regulation, 2020, 90, 1-13.	3.4	42
62	Influence of SiO₂ nanoparticles on the dielectric properties and anchoring energy parameters of pure ferroelectric liquid crystal. Journal of Dispersion Science and Technology, 2020, 41, 2136-2142.	2.4	6
63	Dielectric and electro-optical properties of zinc ferrite nanoparticles dispersed nematic liquid crystal 4â€™-Heptyl-4-biphenylcarbonnitrile. Liquid Crystals, 2020, 47, 1025-1040.	2.2	25
64	Silicon and plant growth promoting rhizobacteria differentially regulate AgNP-induced toxicity in Brassica juncea: Implication of nitric oxide. Journal of Hazardous Materials, 2020, 390, 121806.	12.4	46
65	Exogenous nitric oxide requires endogenous hydrogen sulfide to induce the resilience through sulfur assimilation in tomato seedlings under hexavalent chromium toxicity. Plant Physiology and Biochemistry, 2020, 155, 20-34.	5.8	66
66	A brief appraisal of ethylene signaling under abiotic stress in plants. Plant Signaling and Behavior, 2020, 15, 1782051.	2.4	64
67	Dose dependent differential effects of toxic metal cadmium in tomato roots: Role of endogenous hydrogen sulfide. Ecotoxicology and Environmental Safety, 2020, 203, 110978.	6.0	18
68	Ascorbic acid is essential for inducing chromium (VI) toxicity tolerance in tomato roots. Journal of Biotechnology, 2020, 322, 66-73.	3.8	29
69	Dispersion of nanoparticles into the low birefringent nematic liquid crystal: study of optical and electro-optical parameters and its applicability towards liquid crystal displays. Journal of Theoretical and Applied Physics, 2020, 14, 51-59.	1.4	3
70	Silicon in plant biology: from past to present, and future challenges. Journal of Experimental Botany, 2020, 71, 6699-6702.	4.8	24
71	Room temperature perylene based columnar liquid crystals as solid-state fluorescent emitters in solution-processable organic light-emitting diodes. Journal of Materials Chemistry C, 2020, 8, 12485-12494.	5.5	31
72	Charge transport in phenazine-fused triphenylene discotic mesogens doped with CdS nanowires. New Journal of Chemistry, 2020, 44, 14872-14878.	2.8	10

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73	Full sunlight acclimation mechanisms in Riccia discolor thalli: Assessment at morphological, anatomical, and biochemical levels. Journal of Photochemistry and Photobiology B: Biology, 2020, 210, 111983.	3.8	0
74	Silicon tackles butachlor toxicity in rice seedlings by regulating anatomical characteristics, ascorbate-glutathione cycle, proline metabolism and levels of nutrients. Scientific Reports, 2020, 10, 14078.	3.3	27
75	Luminescent Conductive Columnar Ï€-Gelators for Fe(II) Sensing and Bio-Imaging Applications. Journal of Physical Chemistry B, 2020, 124, 10257-10265.	2.6	13
76	Carbon dot-dispersed hexabutyloxytriphenylene discotic mesogens: structural, morphological and charge transport behavior. Journal of Materials Chemistry C, 2020, 8, 9252-9261.	5.5	20
77	Effect of graphene oxide dispersion in antiferroelectric liquid crystal mixture in the verge of SmC* to SmCA* phase transition. Chinese Journal of Physics, 2020, 67, 91-106.	3.9	7
78	Silver nanoparticles dispersed in nematic liquid crystal: an impact on dielectric and electro-optical parameters. Journal of Theoretical and Applied Physics, 2020, 14, 237-243.	1.4	18
79	Cytokinin alleviates cypermethrin toxicity in Nostoc muscorum by involving nitric oxide: Regulation of exopolysaccharides secretion, PS II photochemistry and reactive oxygen species homeostasis. Chemosphere, 2020, 259, 127356.	8.2	12
80	Mitigation of chromium (VI) toxicity by additional sulfur in some vegetable crops involves glutathione and hydrogen sulfide. Plant Physiology and Biochemistry, 2020, 155, 952-964.	5.8	23
81	Optimization of the dielectric and optical parameters of 1,2,4-oxadiazole ferroelectric mesophase with the suspension of PVP capped gold nanoparticles. Optical Materials, 2020, 107, 110021.	3.6	5
82	Photoluminescence modulation in the graphene oxide dispersed 4-n-octyl-4â€™-cyanobiphenyl molecular system. Journal of Luminescence, 2020, 226, 117509.	3.1	11
83	Time-resolved fluorescence and UV absorbance study on Elaeis guineensis/oil palm leaf based carbon nanoparticles doped in nematic liquid crystals. Journal of Molecular Liquids, 2020, 304, 112773.	4.9	11
84	Hydrogen sulfide and nitric oxide signal integration and plant development under stressed/nonâ€stressed conditions. Physiologia Plantarum, 2020, 168, 239-240.	5.2	58
85	Spectroscopic, dielectric and nonlinear currentâ€“voltage characterization of a hydrogen-bonded liquid crystalline compound influenced via graphitic nanoflakes: An equilibrium between the experimental and theoretical studies. Journal of Molecular Liquids, 2020, 302, 112537.	4.9	13
86	Phase Contraction, fluorescence quenching and formation of topological defects in chiral smectic C matrix by Cd_{0.15}Zn_{0.85}S/ZnS core/shell quantum dots dispersion: Faster electro-optic response for gadget displays. Liquid Crystals, 2020, 47, 1638-1654.	2.2	8
87	Thermal, electrical and structural characterization of zinc phosphate glass matrix loaded with different volume fractions of the graphite particles. Journal of Non-Crystalline Solids, 2020, 536, 119989.	3.1	8
88	Additional calcium and sulfur manages hexavalent chromium toxicity in Solanum lycopersicum L. and Solanum melongena L. seedlings by involving nitric oxide. Journal of Hazardous Materials, 2020, 398, 122607.	12.4	38
89	Nitric oxide-mediated regulation of sub-cellular chromium distribution, ascorbateâ€“glutathione cycle and glutathione biosynthesis in tomato roots under chromium (VI) toxicity. Journal of Biotechnology, 2020, 318, 68-77.	3.8	28
90	Liquid crystal lens with doping of rutile titanium dioxide nanoparticles. Optics Express, 2020, 28, 22856.	3.4	16

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91	CdSe quantum dots in chiral smectic C matrix: experimental evidence of smectic layer distortion by small and wide angle X-ray scattering and subsequent effect on electro-optical parameters. Liquid Crystals, 2019, 46, 376-385.	2.2	17
92	Molecular p-doping in organic liquid crystalline semiconductors: influence of the charge transfer complex on the properties of mesophase and bulk charge transport. Physical Chemistry Chemical Physics, 2019, 21, 18686-18698.	2.8	10
93	Interactive Effect of Silicon (Si) and Salicylic Acid (SA) in Maize Seedlings and Their Mechanisms of Cadmium (Cd) Toxicity Alleviation. Journal of Plant Growth Regulation, 2019, 38, 1587-1597.	5.1	55
94	Avenues of the membrane transport system in adaptation of plants to abiotic stresses. Critical Reviews in Biotechnology, 2019, 39, 861-883.	9.0	53
95	Influence of Fe₂O₃nanoparticles on the birefringence property of weakly polar nematic liquid crystal. Molecular Crystals and Liquid Crystals, 2019, 680, 65-74.	0.9	14
96	Ferroelectric liquid crystal mixture dispersed with tin oxide nanoparticles: Study of morphology, thermal, dielectric and optical properties. Materials Chemistry and Physics, 2019, 237, 121851.	4.0	12
97	Plasmonic resonance instigated enhanced photoluminescence in quantum dot dispersed nematic liquid crystal. Liquid Crystals, 2019, 46, 1224-1230.	2.2	10
98	Orientation of 4-n-octyl-4â€²-cyanobiphenyl molecules on graphene oxide surface via electronâ€“phonon interaction and its applications in nonlinear electronics. Journal of Materials Chemistry C, 2019, 7, 2734-2743.	5.5	14
99	Investigation of thermodynamical, dielectric and electro-optical parameters of nematic liquid crystal doped with polyaniline and silver nanoparticles. Journal of Molecular Liquids, 2019, 290, 111241.	4.9	19
100	Faster response and lesser threshold voltage of strontium hardystonite (Sr-HT) nematic liquid crystal: Photoluminescence and optical study. Optical Materials, 2019, 93, 19-24.	3.6	11
101	Investigation of dielectric and electro-optical properties of nematic liquid crystal with the suspension of biowaste-based porous carbon nanoparticles. Liquid Crystals, 2019, 46, 1808-1820.	2.2	20
102	Regulation of cadmium toxicity in roots of tomato by indole acetic acid with special emphasis on reactive oxygen species production and their scavenging. Plant Physiology and Biochemistry, 2019, 142, 193-201.	5.8	54
103	Improved dielectric and electro-optical parameters of nematic liquid crystal doped with magnetic nanoparticles. Chinese Physics B, 2019, 28, 034209.	1.4	19
104	Study of the electrocaloric effect in ferroelectric liquid crystals. Liquid Crystals, 2019, 46, 1517-1526.	2.2	4
105	Nitrogen alleviates salinity toxicity in Solanum lycopersicum seedlings by regulating ROS homeostasis. Plant Physiology and Biochemistry, 2019, 141, 466-476.	5.8	48
106	Room temperature discotic liquid crystalline triphenylene-pentaalkynylbenzene dyads as an emitter in blue OLEDs and their charge transfer complexes with ambipolar charge transport behaviour. Journal of Materials Chemistry C, 2019, 7, 5724-5738.	5.5	42
107	Effect of graphene oxide dispersion in nematic mesogen and their characterization results. Applied Physics A: Materials Science and Processing, 2019, 125, 1.	2.3	13
108	Transmuting the blue fluorescence of hekates mesogens derived from tris(N-salicylideneaniline)s core via ZnS/ZnS:Mn2+ semiconductor quantum dots dispersion. Journal of Luminescence, 2019, 210, 7-13.	3.1	7

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109	Investigation of dielectric and electro-optical parameters of high birefringent nematic liquid crystal doped with TiO₂ nanoparticles and its applicability toward liquid crystal displays. Molecular Crystals and Liquid Crystals, 2019, 691, 50-61.	0.9	7
110	SiO2 nanoparticles doped nematic liquid crystal system: An experimental investigation on optical and dielectric properties. Chinese Journal of Physics, 2019, 57, 82-89.	3.9	23
111	Extraction, purification and characterisation of Phycocyanin from Anabaena fertilissima PUPCCC 410.5: as a natural and food grade stable pigment. Journal of Applied Phycology, 2019, 31, 1685-1696.	2.8	27
112	Kinetin Alleviates UV-B-Induced Damage in Solanum lycopersicum: Implications of Phenolics and Antioxidants. Journal of Plant Growth Regulation, 2019, 38, 831-841.	5.1	15
113	Nanoparticles alter the withanolide biosynthesis and carbohydrate metabolism in Withania somnifera (Dunal). Industrial Crops and Products, 2019, 127, 94-109.	5.2	28
114	Hole transporting properties of discotic liquid-crystalline semiconductor confined in calamitic UV-crosslinked gel. Journal of Molecular Liquids, 2019, 276, 27-31.	4.9	6
115	Preparation and photophysical properties of soft-nano composites comprising guest anatase <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si0003.gif" overflow="scroll"><mml:msub><mml:mrow><mml:mi>TiO</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn></mml:mrow> nanoparticle and host hekates mesogens. Journal of Luminescence, 2019, 205, 304-309.	3.1	9
116	Study of an interesting physical mechanism of memory effect in nematic liquid crystal dispersed with quantum dots. Liquid Crystals, 2019, 46, 725-735.	2.2	39
117	InP/ZnS quantum-dot-dispersed nematic liquid crystal illustrating characteristic birefringence and enhanced electro-optical parameters. Applied Physics A: Materials Science and Processing, 2018, 124, 1.	2.3	15
118	UV response on dielectric properties of nano nematic liquid crystal. Results in Physics, 2018, 8, 1119-1123.	4.1	9
119	Cd 1â^'X Zn X S/ZnS core/shell quantum dots in nematic liquid crystals to improve material parameter for better performance of liquid crystal based devices. Journal of Molecular Liquids, 2018, 255, 93-101.	4.9	36
120	Analysis of electro-optical and dielectric parameters of TiO₂ nanoparticles dispersed nematic liquid crystal. Soft Materials, 2018, 16, 126-133.	1.7	23
121	CuInS2/ZnS QD-ferroelectric liquid crystal mixtures for faster electro-optical devices and their energy storage aspects. Journal of Applied Physics, 2018, 123, .	2.5	13
122	Dielectric study of Clove oil. Journal of Ayurveda and Integrative Medicine, 2018, 9, 53-56.	1.7	6
123	A bridged ruthenium dimer (Ruâ€“Ru) for photoreduction of CO2 under visible light irradiation. Journal of Industrial and Engineering Chemistry, 2018, 61, 381-387.	5.8	17
124	Manifestation of strong magneto-electric dipolar coupling in ferromagnetic nanoparticlesâ^'FLC composite: evaluation of time-dependent memory effect. Liquid Crystals, 2018, 45, 687-697.	2.2	20
125	Investigation of several essential display features for the low birefringent nematic liquid crystal dispersed with polymer. Applied Physics A: Materials Science and Processing, 2018, 124, 1.	2.3	4
126	Dielectric and spectroscopic study of nano-sized diamond dispersed ferroelectric liquid crystal. Journal of Molecular Liquids, 2018, 264, 510-514.	4.9	13

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127	Effect of ion trapping behavior of TiO2 nanoparticles on different parameters of weakly polar nematic liquid crystal. Journal of Theoretical and Applied Physics, 2018, 12, 191-198.	1.4	27
128	Dual photoluminescence and charge transport in an alkoxy biphenyl benzoate ferroelectric liquid crystallineâ€“graphene oxide composite. New Journal of Chemistry, 2018, 42, 16682-16693.	2.8	18
129	Tuning of birefringence, response time, and dielectric anisotropy by the dispersion of fluorescent dye into the nematic liquid crystal. Applied Physics A: Materials Science and Processing, 2018, 124, 1.	2.3	29
130	Charge Transport in Novel Phenazine Fused Triphenylene Supramolecular Systems. ChemistrySelect, 2018, 3, 6551-6560.	1.5	20
131	Polymer-doped ferroelectric liquid crystal: UV absorbance, fluorescence and electro-optical study. Phase Transitions, 2017, 90, 227-235.	1.3	4
132	Effect of graphene oxide interlayer electron-phonon coupling on the electro-optical parameters of a ferroelectric liquid crystal. RSC Advances, 2017, 7, 12479-12485.	3.6	17
133	CdTe quantum dot dispersed ferroelectric liquid crystal: Transient memory with faster optical response and quenching of photoluminescence. Journal of Molecular Liquids, 2017, 237, 71-80.	4.9	19
134	Phycobiliprotein production by a novel cold desert cyanobacterium Nodularia sphaerocarpa PUPCCC 420.1. Journal of Applied Phycology, 2017, 29, 1819-1827.	2.8	19
135	Effect of Cd1â^'xZnxS/ZnS core/shell quantum dot on the optical response and relaxation behaviour of ferroelectric liquid crystal. Molecular Crystals and Liquid Crystals, 2017, 652, 195-205.	0.9	9
136	Effect of metallic silver nanoparticles on the alignment and relaxation behaviour of liquid crystalline material in smectic C* phase. Journal of Applied Physics, 2017, 122, .	2.5	12
137	Pico-ampere current sensitivity and CdSe quantum dots assembly assisted charge transport in ferroelectric liquid crystal. Journal Physics D: Applied Physics, 2017, 50, 325301.	2.8	11
138	3-D vertically aligned few layer graphene â€“ partially reduced graphene oxide/sulfur electrodes for high performance lithiumâ€“sulfur batteries. Sustainable Energy and Fuels, 2017, 1, 1516-1523.	4.9	12
139	Time-resolved fluorescence and absence of FÃ¶rster resonance energy transfer in ferroelectric liquid crystal-quantum dots composites. Journal of Luminescence, 2017, 190, 161-170.	3.1	18
140	ZnS quantum dot induced phase transitional changes and enhanced ferroelectric mesophase in QDs/FLC composites. Journal of Physics and Chemistry of Solids, 2017, 100, 134-142.	4.0	10
141	Effect of UV light irradiation on the dielectric behaviour of liquid crystal/nano composite. Molecular Crystals and Liquid Crystals, 2017, 656, 89-95.	0.9	2
142	Silicon Nanoparticles More Efficiently Alleviate Arsenate Toxicity than Silicon in Maize Cultiver and Hybrid Differing in Arsenate Tolerance. Frontiers in Environmental Science, 2016, 4, .	3.3	253
143	Mn2+ doped ZnS quantum dots in ferroelectric liquid crystal matrix: Analysis of new relaxation phenomenon, faster optical response, and concentration dependent quenching in photoluminescence. Journal of Applied Physics, 2016, 119, .	2.5	18
144	Responses of photosynthesis, nitrogen and proline metabolism to salinity stress in Solanum lycopersicum under different levels of nitrogen supplementation. Plant Physiology and Biochemistry, 2016, 109, 72-83.	5.8	84

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145	Nano-doped weakly polar versus highly polar liquid crystal. Applied Nanoscience (Switzerland), 2016, 6, 141-148.	3.1	4
146	LIB spectroscopic and biochemical analysis to characterize lead toxicity alleviative nature of silicon in wheat (Triticum aestivum L.) seedlings. Journal of Photochemistry and Photobiology B: Biology, 2016, 154, 89-98.	3.8	75
147	Thermal and optical study of semiconducting CNTs-doped nematic liquid crystalline material. Phase Transitions, 2016, 89, 632-642.	1.3	22
148	Dielectric Relaxation Spectroscopy of Liquid Crystal in Nematogenic Mesophase. Molecular Crystals and Liquid Crystals, 2016, 626, 160-168.	0.9	4
149	Quenching of photoluminescence and enhanced contrast of ferroelectric liquid crystal dispersed with Cd1â^'Zn S/ZnS core/shell nanocrystals. Journal of Luminescence, 2016, 173, 250-256.	3.1	39
150	Tailoring of cholesteric plane spacing, dielectric relaxation and optical properties of high temperature chiral nematic phase by UV irradiation. Molecular Crystals and Liquid Crystals, 2016, 625, 1-10.	0.9	0
151	Dielectric and electro-optical properties of polymer-stabilized liquid crystal system. Applied Physics A: Materials Science and Processing, 2016, 122, 1.	2.3	21
152	Core/shell quantum dots in ferroelectric liquid crystals matrix: effect of spontaneous polarisation coupling with dopant. Liquid Crystals, 2016, 43, 980-993.	2.2	35
153	Tuning phase retardation behaviour of nematic liquid crystal using quantum dot. Current Applied Physics, 2016, 16, 79-82.	2.4	25
154	Analysis of optical properties and mechanism of photoluminescence enhancement of quantum dot - ferroelectric liquid crystal composite. Photonics Letters of Poland, 2016, 8, .	0.4	1
155	Effects of polymer doping on dielectric and electro-optical parameters of nematic liquid crystal. Polymer Engineering and Science, 2015, 55, 414-420.	3.1	18
156	Influence of CdSe quantum dot on molecular/ionic relaxation phenomenon and change in physical parameters of ferroelectric liquid crystal. Liquid Crystals, 2015, 42, 1159-1168.	2.2	17
157	Fluorescence, UV absorbance and dielectric studies of fluorescent dye doped ferroelectric liquid crystal. Journal of Non-Crystalline Solids, 2015, 412, 1-4.	3.1	12
158	Effect of TiO₂nanoparticles dispersion on ionic behaviour in nematic liquid crystal. Liquid Crystals, 2015, 42, 1095-1101.	2.2	65
159	Enhancement of birefringence of liquid crystals with dispersion of poly (n-butyl methacrylate) (PBMA). Liquid Crystals, 2015, 42, 1465-1471.	2.2	25
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