

Vijay Pratap Singh

List of Publications by Year in descending order

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244
papers

5,843
citations

94269

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docs citations

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times ranked

3513
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#	ARTICLE	IF	CITATIONS
1	Silicon Nanoparticles More Efficiently Alleviate Arsenate Toxicity than Silicon in Maize Cultivar and Hybrid Differing in Arsenate Tolerance. <i>Frontiers in Environmental Science</i> , 2016, 4, .	1.5	253
2	Impact of exogenous silicon addition on chromium uptake, growth, mineral elements, oxidative stress, antioxidant capacity, and leaf and root structures in rice seedlings exposed to hexavalent chromium. <i>Acta Physiologiae Plantarum</i> , 2012, 34, 279-289.	1.0	196
3	Silicon-mediated alleviation of Cr(VI) toxicity in wheat seedlings as evidenced by chlorophyll fluorescence, laser induced breakdown spectroscopy and anatomical changes. <i>Ecotoxicology and Environmental Safety</i> , 2015, 113, 133-144.	2.9	152
4	Rice seedlings under cadmium stress: effect of silicon on growth, cadmium uptake, oxidative stress, antioxidant capacity and root and leaf structures. <i>Chemistry and Ecology</i> , 2012, 28, 281-291.	0.6	129
5	Nitric oxide alleviates arsenic-induced toxic effects in ridged <i>Luffa</i> seedlings. <i>Plant Physiology and Biochemistry</i> , 2013, 71, 155-163.	2.8	122
6	Chlorpyrifos degradation by the cyanobacterium <i>Synechocystis</i> sp. strain PUPCCC 64. <i>Environmental Science and Pollution Research</i> , 2011, 18, 1351-1359.	2.7	97
7	Influence of Exogenous Silicon Addition on Aluminium Tolerance in Rice Seedlings. <i>Biological Trace Element Research</i> , 2011, 144, 1260-1274.	1.9	94
8	Nitric oxide and hydrogen sulfide: an indispensable combination for plant functioning. <i>Trends in Plant Science</i> , 2021, 26, 1270-1285.	4.3	90
9	Modification of chromium (VI) phytotoxicity by exogenous gibberellic acid application in <i>Pisum sativum</i> (L.) seedlings. <i>Acta Physiologiae Plantarum</i> , 2011, 33, 1385-1397.	1.0	86
10	Responses of photosynthesis, nitrogen and proline metabolism to salinity stress in <i>Solanum lycopersicum</i> under different levels of nitrogen supplementation. <i>Plant Physiology and Biochemistry</i> , 2016, 109, 72-83.	2.8	84
11	LIB spectroscopic and biochemical analysis to characterize lead toxicity alleviative nature of silicon in wheat (<i>Triticum aestivum</i> L.) seedlings. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2016, 154, 89-98.	1.7	75
12	Zinc Oxide (1% Cu) Nanoparticle in Nematic Liquid Crystal: Dielectric and Electro-Optical Study. <i>Japanese Journal of Applied Physics</i> , 2009, 48, 101501.	0.8	72
13	Exogenous nitric oxide requires endogenous hydrogen sulfide to induce the resilience through sulfur assimilation in tomato seedlings under hexavalent chromium toxicity. <i>Plant Physiology and Biochemistry</i> , 2020, 155, 20-34.	2.8	66
14	Effect of TiO ₂ nanoparticles dispersion on ionic behaviour in nematic liquid crystal. <i>Liquid Crystals</i> , 2015, 42, 1095-1101.	0.9	65
15	A brief appraisal of ethylene signaling under abiotic stress in plants. <i>Plant Signaling and Behavior</i> , 2020, 15, 1782051.	1.2	64
16	Regulation of ascorbate-glutathione cycle by exogenous nitric oxide and hydrogen peroxide in soybean roots under arsenate stress. <i>Journal of Hazardous Materials</i> , 2021, 409, 123686.	6.5	59
17	Hydrogen sulfide and nitric oxide signal integration and plant development under stressed/non-stressed conditions. <i>Physiologia Plantarum</i> , 2020, 168, 239-240.	2.6	58
18	Interactive Effect of Silicon (Si) and Salicylic Acid (SA) in Maize Seedlings and Their Mechanisms of Cadmium (Cd) Toxicity Alleviation. <i>Journal of Plant Growth Regulation</i> , 2019, 38, 1587-1597.	2.8	55

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19	Silicon crosstalk with reactive oxygen species, phytohormones and other signaling molecules. <i>Journal of Hazardous Materials</i> , 2021, 408, 124820.	6.5	55
20	Regulation of cadmium toxicity in roots of tomato by indole acetic acid with special emphasis on reactive oxygen species production and their scavenging. <i>Plant Physiology and Biochemistry</i> , 2019, 142, 193-201.	2.8	54
21	Improved dielectric and electro-optical parameters of ZnO nano-particle (8% Cu ²⁺) doped nematic liquid crystal. <i>Journal of Molecular Structure</i> , 2013, 1035, 371-377.	1.8	53
22	Avenues of the membrane transport system in adaptation of plants to abiotic stresses. <i>Critical Reviews in Biotechnology</i> , 2019, 39, 861-883.	5.1	53
23	Silicon induces adventitious root formation in rice under arsenate stress with involvement of nitric oxide and indole-3-acetic acid. <i>Journal of Experimental Botany</i> , 2021, 72, 4457-4471.	2.4	53
24	Dielectric and electro-optical study of ZnO nano rods doped ferroelectric liquid crystals. <i>Journal of Materials Science</i> , 2011, 46, 5969-5976.	1.7	51
25	Differential effect of UV-B radiation on growth, oxidative stress and ascorbate-glutathione cycle in two cyanobacteria under copper toxicity. <i>Plant Physiology and Biochemistry</i> , 2012, 61, 61-70.	2.8	50
26	Nitrogen alleviates salinity toxicity in <i>Solanum lycopersicum</i> seedlings by regulating ROS homeostasis. <i>Plant Physiology and Biochemistry</i> , 2019, 141, 466-476.	2.8	48
27	Auxin metabolic network regulates the plant response to metalloids stress. <i>Journal of Hazardous Materials</i> , 2021, 405, 124250.	6.5	47
28	Synergistic action of silicon nanoparticles and indole acetic acid in alleviation of chromium (CrVI) toxicity in <i>Oryza sativa</i> seedlings. <i>Journal of Biotechnology</i> , 2022, 343, 71-82.	1.9	47
29	Silicon and plant growth promoting rhizobacteria differentially regulate AgNP-induced toxicity in <i>Brassica juncea</i> : Implication of nitric oxide. <i>Journal of Hazardous Materials</i> , 2020, 390, 121806.	6.5	46
30	Structural modifications of plant organs and tissues by metals and metalloids in the environment: A review. <i>Plant Physiology and Biochemistry</i> , 2021, 159, 100-112.	2.8	46
31	Application of zinc oxide nanoparticles as fertilizer boosts growth in rice plant and alleviates chromium stress by regulating genes involved in oxidative stress. <i>Chemosphere</i> , 2022, 303, 134554.	4.2	44
32	Room temperature discotic liquid crystalline triphenylene-pentaalkynylbenzene dyads as an emitter in blue OLEDs and their charge transfer complexes with ambipolar charge transport behaviour. <i>Journal of Materials Chemistry C</i> , 2019, 7, 5724-5738.	2.7	42
33	Nitric oxide in plants: an ancient molecule with new tasks. <i>Plant Growth Regulation</i> , 2020, 90, 1-13.	1.8	42
34	Ferroelectric liquid crystals versus dyed ferroelectric liquid crystals in SmC [*] phase. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2007, 371, 490-498.	0.9	41
35	Plant Responses to Metal Stress. , 2014, , 215-248.		41
36	Quenching of photoluminescence and enhanced contrast of ferroelectric liquid crystal dispersed with Cd ¹⁺ Zn S/ZnS core/shell nanocrystals. <i>Journal of Luminescence</i> , 2016, 173, 250-256.	1.5	39

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37	Study of an interesting physical mechanism of memory effect in nematic liquid crystal dispersed with quantum dots. <i>Liquid Crystals</i> , 2019, 46, 725-735.	0.9	39
38	Silicon and nitric oxide-mediated mechanisms of cadmium toxicity alleviation in wheat seedlings. <i>Physiologia Plantarum</i> , 2022, 174, .	2.6	39
39	Effect of Nitric Oxide on Seed Germination and Seedling Development of Tomato Under Chromium Toxicity. <i>Journal of Plant Growth Regulation</i> , 2021, 40, 2358-2370.	2.8	39
40	Recent progress and future perspectives on carbon-nanomaterial-dispersed liquid crystal composites. <i>Journal Physics D: Applied Physics</i> , 2022, 55, 083002.	1.3	39
41	Additional calcium and sulfur manages hexavalent chromium toxicity in <i>Solanum lycopersicum</i> L. and <i>Solanum melongena</i> L. seedlings by involving nitric oxide. <i>Journal of Hazardous Materials</i> , 2020, 398, 122607.	6.5	38
42	Cd _{1-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. <i>Journal of Molecular Liquids</i> , 2018, 255, 93-101.	2.3	36
43	Kinetics and physico-chemical characterization of exopolysaccharides produced by the cyanobacterium <i>Oscillatoria formosa</i> . <i>World Journal of Microbiology and Biotechnology</i> , 2011, 27, 2139-2146.	1.7	35
44	Core/shell quantum dots in ferroelectric liquid crystals matrix: effect of spontaneous polarisation coupling with dopant. <i>Liquid Crystals</i> , 2016, 43, 980-993.	0.9	35
45	Glutathione and hydrogen sulfide are required for sulfur-mediated mitigation of Cr(VI) toxicity in tomato, pea and brinjal seedlings. <i>Physiologia Plantarum</i> , 2020, 168, 406-421.	2.6	35
46	Heavy metal induced regulation of plant biology: Recent insights. <i>Physiologia Plantarum</i> , 2022, 174, e13688.	2.6	35
47	Differential responses of pea seedlings to indole acetic acid under manganese toxicity. <i>Acta Physiologiae Plantarum</i> , 2011, 33, 451-462.	1.0	34
48	CdSe quantum dot-dispersed DOBAMBC: an electro-optical study. <i>Liquid Crystals</i> , 2013, 40, 528-533.	0.9	34
49	Dielectric, electro-optical, and photoluminescence characteristics of ferroelectric liquid crystals on a graphene-coated indium tin oxide substrate. <i>Physical Review E</i> , 2014, 90, 022501.	0.8	34
50	Sign inversion of dielectric anisotropy in nematic liquid crystal by dye doping. <i>Journal of Physics and Chemistry of Solids</i> , 2010, 71, 1311-1315.	1.9	33
51	Ferroelectric liquid crystal matrix dispersed with Cu doped ZnO nanoparticles. <i>Journal of Non-Crystalline Solids</i> , 2013, 363, 178-186.	1.5	33
52	Room temperature perylene based columnar liquid crystals as solid-state fluorescent emitters in solution-processable organic light-emitting diodes. <i>Journal of Materials Chemistry C</i> , 2020, 8, 12485-12494.	2.7	31
53	Mitigation of arsenate toxicity by indole-3-acetic acid in brinjal roots: Plausible association with endogenous hydrogen peroxide. <i>Journal of Hazardous Materials</i> , 2021, 405, 124336.	6.5	31
54	Cd _{1-x} Zn _x S/ZnS core/shell quantum dot ferroelectric liquid crystal composite system: analysis of faster optical response and lower operating voltage. <i>Liquid Crystals</i> , 2014, 41, 1811-1820.	0.9	30

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55	Role of Silicon in Enrichment of Plant Nutrients and Protection from Biotic and Abiotic Stresses. , 2014, , 39-56.		30
56	NaCl-induced physiological and biochemical changes in two cyanobacteria <i>Nostoc muscorum</i> and <i>Phormidium foveolarum</i> acclimatized to different photosynthetically active radiation. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2015, 151, 221-232.	1.7	30
57	Tuning of birefringence, response time, and dielectric anisotropy by the dispersion of fluorescent dye into the nematic liquid crystal. <i>Applied Physics A: Materials Science and Processing</i> , 2018, 124, 1.	1.1	29
58	Ascorbic acid is essential for inducing chromium (VI) toxicity tolerance in tomato roots. <i>Journal of Biotechnology</i> , 2020, 322, 66-73.	1.9	29
59	Hydrogen sulfide (H ₂ S) underpins the beneficial silicon effects against the copper oxide nanoparticles (CuO NPs) phytotoxicity in <i>Oryza sativa</i> seedlings. <i>Journal of Hazardous Materials</i> , 2021, 415, 124907.	6.5	29
60	Applicability of TiO ₂ nanoparticle towards suppression of screening effect in nematic liquid crystal. <i>Journal of Molecular Liquids</i> , 2015, 208, 34-37.	2.3	28
61	Nanoparticles alter the withanolide biosynthesis and carbohydrate metabolism in <i>Withania somnifera</i> (Dunal). <i>Industrial Crops and Products</i> , 2019, 127, 94-109.	2.5	28
62	Nitric oxide-mediated regulation of sub-cellular chromium distribution, ascorbate-glutathione cycle and glutathione biosynthesis in tomato roots under chromium (VI) toxicity. <i>Journal of Biotechnology</i> , 2020, 318, 68-77.	1.9	28
63	Enhanced negative dielectric anisotropy and high electrical conductivity of the SWCNT doped nematic liquid crystalline material. <i>Journal of Molecular Liquids</i> , 2015, 204, 21-26.	2.3	27
64	Effect of ion trapping behavior of TiO ₂ nanoparticles on different parameters of weakly polar nematic liquid crystal. <i>Journal of Theoretical and Applied Physics</i> , 2018, 12, 191-198.	1.4	27
65	Extraction, purification and characterisation of Phycocyanin from <i>Anabaena fertilissima</i> PUPCCC 410.5: as a natural and food grade stable pigment. <i>Journal of Applied Phycology</i> , 2019, 31, 1685-1696.	1.5	27
66	Silicon tackles butachlor toxicity in rice seedlings by regulating anatomical characteristics, ascorbate-glutathione cycle, proline metabolism and levels of nutrients. <i>Scientific Reports</i> , 2020, 10, 14078.	1.6	27
67	Electrical And Polarization Behaviour Of Titania Nanoparticles Doped Ferroelectric Liquid Crystal. <i>Advanced Materials Letters</i> , 2015, 6, 68-72.	0.3	27
68	Modification in dielectric properties of SWCNT doped ferroelectric liquid crystals. <i>Journal of Non-Crystalline Solids</i> , 2011, 357, 1822-1826.	1.5	26
69	NO and ROS implications in the organization of root system architecture. <i>Physiologia Plantarum</i> , 2020, 168, 473-489.	2.6	26
70	Implication of nitric oxide and hydrogen sulfide signalling in alleviating arsenate stress in rice seedlings. <i>Environmental Pollution</i> , 2021, 291, 117958.	3.7	26
71	Anilofos Tolerance and Its Mineralization by the Cyanobacterium <i>Synechocystis</i> sp. Strain PUPCCC 64. <i>PLoS ONE</i> , 2013, 8, e53445.	1.1	25
72	Reduced ionic contaminations in CdSe quantum dot dispersed ferroelectric liquid crystal and its applications. <i>Liquid Crystals</i> , 2014, 41, 1356-1365.	0.9	25

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73	Enhancement of birefringence of liquid crystals with dispersion of poly (<i>n</i> -butyl methacrylate) (PBMA). <i>Liquid Crystals</i> , 2015, 42, 1465-1471.	0.9	25
74	Tuning phase retardation behaviour of nematic liquid crystal using quantum dot. <i>Current Applied Physics</i> , 2016, 16, 79-82.	1.1	25
75	Dielectric and electro-optical properties of zinc ferrite nanoparticles dispersed nematic liquid crystal 4-Heptyl-4-biphenylcarbonitrile. <i>Liquid Crystals</i> , 2020, 47, 1025-1040.	0.9	25
76	Dielectric and electro-optical parameters of two ferroelectric liquid crystals: a comparative study. <i>Physica Scripta</i> , 2008, 78, 065602.	1.2	24
77	Silicon in plant biology: from past to present, and future challenges. <i>Journal of Experimental Botany</i> , 2020, 71, 6699-6702.	2.4	24
78	Implication of Nitric Oxide Under Salinity Stress: The Possible Interaction with Other Signaling Molecules. <i>Journal of Plant Growth Regulation</i> , 2022, 41, 163-177.	2.8	24
79	Dielectric Relaxation of Dye-Doped Ferroelectric Liquid Crystal Mixture: A Comparative Study of Smectic C* and Smectic A Phase. <i>Japanese Journal of Applied Physics</i> , 2007, 46, 1100-1105.	0.8	23
80	Analysis of electro-optical and dielectric parameters of TiO ₂ nanoparticles dispersed nematic liquid crystal. <i>Soft Materials</i> , 2018, 16, 126-133.	0.8	23
81	SiO ₂ nanoparticles doped nematic liquid crystal system: An experimental investigation on optical and dielectric properties. <i>Chinese Journal of Physics</i> , 2019, 57, 82-89.	2.0	23
82	Mitigation of chromium (VI) toxicity by additional sulfur in some vegetable crops involves glutathione and hydrogen sulfide. <i>Plant Physiology and Biochemistry</i> , 2020, 155, 952-964.	2.8	23
83	Nanoparticles as a potential protective agent for arsenic toxicity alleviation in plants. <i>Environmental Pollution</i> , 2022, 300, 118887.	3.7	23
84	Thermal and optical study of semiconducting CNTs-doped nematic liquid crystalline material. <i>Phase Transitions</i> , 2016, 89, 632-642.	0.6	22
85	The scientific duo of TiO ₂ nanoparticles and nematic liquid crystal E204: Increased absorbance, photoluminescence quenching and improving response time for electro-optical devices. <i>Journal of Molecular Liquids</i> , 2021, 325, 115130.	2.3	22
86	Early diagnosis of lung cancer using magnetic nanoparticles-integrated systems. <i>Nanotechnology Reviews</i> , 2022, 11, 544-574.	2.6	22
87	Dielectric Relaxation of FLC Showing Anomalous Behavior. <i>Soft Materials</i> , 2007, 5, 207-218.	0.8	21
88	Synthesis, molecular structure, and spectral analyses of ethyl-4-[(2,4-dinitrophenyl)-hydrazonomethyl]-3,5-dimethyl-1H-pyrrole-2-carboxylate. <i>Structural Chemistry</i> , 2013, 24, 713-724.	1.0	21
89	Effect of cadmium selenide quantum dots on the dielectric and physical parameters of ferroelectric liquid crystal. <i>Journal of Applied Physics</i> , 2014, 116, 034106.	1.1	21
90	Dielectric and electro-optical properties of polymer-stabilized liquid crystal system. <i>Applied Physics A: Materials Science and Processing</i> , 2016, 122, 1.	1.1	21

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91	Ethylene needs endogenous hydrogen sulfide for alleviating hexavalent chromium stress in <i>Vigna mungo</i> L. and <i>Vigna radiata</i> L.. <i>Environmental Pollution</i> , 2021, 290, 117968.	3.7	21
92	Comparative study of dielectric and electro-optical properties of pure and polymer ferroelectric liquid crystal composites. <i>Journal of Polymer Research</i> , 2011, 18, 435-441.	1.2	20
93	Electro-optical, UV absorbance, and UV photoluminescence analysis of Se ₉₅ In ₅ chalcogenide glass microparticle doped ferroelectric liquid crystal. <i>Journal of Applied Physics</i> , 2014, 115, .	1.1	20
94	Intracellular uptake and reduction of hexavalent chromium by the cyanobacterium <i>Synechocystis</i> sp. PUPCCC 62. <i>Journal of Applied Phycology</i> , 2015, 27, 827-837.	1.5	20
95	Manifestation of strong magneto-electric dipolar coupling in ferromagnetic nanoparticles~FLC composite: evaluation of time-dependent memory effect. <i>Liquid Crystals</i> , 2018, 45, 687-697.	0.9	20
96	Charge Transport in Novel Phenazine Fused Triphenylene Supramolecular Systems. <i>ChemistrySelect</i> , 2018, 3, 6551-6560.	0.7	20
97	Investigation of dielectric and electro-optical properties of nematic liquid crystal with the suspension of biowaste-based porous carbon nanoparticles. <i>Liquid Crystals</i> , 2019, 46, 1808-1820.	0.9	20
98	Carbon dot-dispersed hexabutyloxytriphenylene discotic mesogens: structural, morphological and charge transport behavior. <i>Journal of Materials Chemistry C</i> , 2020, 8, 9252-9261.	2.7	20
99	SWCNT doped ferroelectric liquid crystal: The electro-optical properties with enhanced dipolar contribution. <i>Current Applied Physics</i> , 2013, 13, 684-687.	1.1	19
100	CdTe quantum dot dispersed ferroelectric liquid crystal: Transient memory with faster optical response and quenching of photoluminescence. <i>Journal of Molecular Liquids</i> , 2017, 237, 71-80.	2.3	19
101	Phycobiliprotein production by a novel cold desert cyanobacterium <i>Nodularia sphaerocarpa</i> PUPCCC 420.1. <i>Journal of Applied Phycology</i> , 2017, 29, 1819-1827.	1.5	19
102	Investigation of thermodynamical, dielectric and electro-optical parameters of nematic liquid crystal doped with polyaniline and silver nanoparticles. <i>Journal of Molecular Liquids</i> , 2019, 290, 111241.	2.3	19
103	Improved dielectric and electro-optical parameters of nematic liquid crystal doped with magnetic nanoparticles. <i>Chinese Physics B</i> , 2019, 28, 034209.	0.7	19
104	The phenomenon of induced photoluminescence in ferroelectric mesophase. <i>Journal of Luminescence</i> , 2013, 139, 60-63.	1.5	18
105	Concentration Dependent Physical Parameters of Ferroelectric Liquid Crystal and ZnOS Nano Material Composite System. <i>Soft Materials</i> , 2013, 11, 305-314.	0.8	18
106	Effects of polymer doping on dielectric and electro-optical parameters of nematic liquid crystal. <i>Polymer Engineering and Science</i> , 2015, 55, 414-420.	1.5	18
107	Mn ²⁺ doped ZnS quantum dots in ferroelectric liquid crystal matrix: Analysis of new relaxation phenomenon, faster optical response, and concentration dependent quenching in photoluminescence. <i>Journal of Applied Physics</i> , 2016, 119, .	1.1	18
108	Time-resolved fluorescence and absence of Förster resonance energy transfer in ferroelectric liquid crystal-quantum dots composites. <i>Journal of Luminescence</i> , 2017, 190, 161-170.	1.5	18

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109	Dual photoluminescence and charge transport in an alkoxy biphenyl benzoate ferroelectric liquid crystalline-graphene oxide composite. <i>New Journal of Chemistry</i> , 2018, 42, 16682-16693.	1.4	18
110	Dielectric properties and activation energies of Cu: ZnO dispersed nematic mesogen N-(4-methoxybenzylidene)-4-butylaniline liquid crystal. <i>Journal of Dispersion Science and Technology</i> , 2020, 41, 1283-1290.	1.3	18
111	Dose dependent differential effects of toxic metal cadmium in tomato roots: Role of endogenous hydrogen sulfide. <i>Ecotoxicology and Environmental Safety</i> , 2020, 203, 110978.	2.9	18
112	Silver nanoparticles dispersed in nematic liquid crystal: an impact on dielectric and electro-optical parameters. <i>Journal of Theoretical and Applied Physics</i> , 2020, 14, 237-243.	1.4	18
113	Effect of carbonaceous oil palm leaf quantum dot dispersion in nematic liquid crystal on zeta potential, optical texture and dielectric properties. <i>Journal of Nanostructure in Chemistry</i> , 2021, 11, 527-548.	5.3	18
114	Influence of CdSe quantum dot on molecular/ionic relaxation phenomenon and change in physical parameters of ferroelectric liquid crystal. <i>Liquid Crystals</i> , 2015, 42, 1159-1168.	0.9	17
115	Effect of graphene oxide interlayer electron-phonon coupling on the electro-optical parameters of a ferroelectric liquid crystal. <i>RSC Advances</i> , 2017, 7, 12479-12485.	1.7	17
116	A bridged ruthenium dimer (Ru-Ru) for photoreduction of CO ₂ under visible light irradiation. <i>Journal of Industrial and Engineering Chemistry</i> , 2018, 61, 381-387.	2.9	17
117	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. <i>Liquid Crystals</i> , 2019, 46, 376-385.	0.9	17
118	Effect of oil palm leaf-based carbon quantum dot on nematic liquid crystal and its electro-optical effects. <i>Liquid Crystals</i> , 2021, 48, 812-831.	0.9	16
119	Liquid crystal lens with doping of rutile titanium dioxide nanoparticles. <i>Optics Express</i> , 2020, 28, 22856.	1.7	16
120	Silica nanoparticles: the rising star in plant disease protection. <i>Trends in Plant Science</i> , 2022, 27, 7-9.	4.3	16
121	Light intensity determines the extent of mercury toxicity in the cyanobacterium <i>Nostoc muscorum</i> . <i>Acta Physiologiae Plantarum</i> , 2012, 34, 1119-1131.	1.0	15
122	Analysis of physical parameters and collective dielectric relaxations in core/shell quantum dot ferroelectric liquid crystal composite. <i>Journal of Molecular Liquids</i> , 2015, 211, 157-163.	2.3	15
123	InP/ZnS quantum-dot-dispersed nematic liquid crystal illustrating characteristic birefringence and enhanced electro-optical parameters. <i>Applied Physics A: Materials Science and Processing</i> , 2018, 124, 1.	1.1	15
124	Kinetin Alleviates UV-B-Induced Damage in <i>Solanum lycopersicum</i> : Implications of Phenolics and Antioxidants. <i>Journal of Plant Growth Regulation</i> , 2019, 38, 831-841.	2.8	15
125	Differential effects of UV-B radiation fluence rates on growth, photosynthesis, and phosphate metabolism in two cyanobacteria under copper toxicity. <i>Toxicological and Environmental Chemistry</i> , 2012, 94, 1511-1535.	0.6	14
126	Reduction of optical response time for fluorescent dye doped ferroelectric liquid crystal. <i>Journal of Molecular Liquids</i> , 2012, 175, 67-71.	2.3	14

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127	$\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" id="M1"} \rangle \langle \text{mml:mtext} \rangle \text{Zn} \langle \text{mml:mtext} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mtext} \rangle \text{O} \langle \text{mml:mtext} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \rangle \langle \text{mml:mtext} \rangle$ in Ferroelectric Liquid Crystal Matrix: The Effect of Aggregation and Defects on the Dielectric and Electro-Optical Properties. <i>Advances in Condensed Matter Physics</i> , 2013, 2013, 1-10.	0.4	14
128	Influence of Fe_2O_3 nanoparticles on the birefringence property of weakly polar nematic liquid crystal. <i>Molecular Crystals and Liquid Crystals</i> , 2019, 680, 65-74.	0.4	14
129	Orientation of 4-n-octyl-4'-cyanobiphenyl molecules on graphene oxide surface via electron-phonon interaction and its applications in nonlinear electronics. <i>Journal of Materials Chemistry C</i> , 2019, 7, 2734-2743.	2.7	14
130	Carbon Nanotubes Blended Nematic Liquid Crystal for Display and Electro-Optical Applications. <i>Electronic Materials</i> , 2021, 2, 466-481.	0.9	14
131	Dielectric, thermal and optical study of an unusually shaped liquid crystal. <i>Journal of Physics and Chemistry of Solids</i> , 2010, 71, 1684-1689.	1.9	13
132	Polymer-induced improvements in ferroelectric liquid crystal. <i>Polymer Composites</i> , 2010, 31, 1776-1781.	2.3	13
133	Impact of low and high fluence rates of UV-B radiation on growth and oxidative stress in <i>Phormidium foveolarum</i> and <i>Nostoc muscorum</i> under copper toxicity: differential display of antioxidants system. <i>Acta Physiologiae Plantarum</i> , 2012, 34, 2225-2239.	1.0	13
134	Guest-host interaction in ferroelectric liquid crystal-nanoparticle composite system. <i>Bulletin of Materials Science</i> , 2014, 37, 511-518.	0.8	13
135	$\text{CuInS}_2/\text{ZnS}$ QD-ferroelectric liquid crystal mixtures for faster electro-optical devices and their energy storage aspects. <i>Journal of Applied Physics</i> , 2018, 123, .	1.1	13
136	Dielectric and spectroscopic study of nano-sized diamond dispersed ferroelectric liquid crystal. <i>Journal of Molecular Liquids</i> , 2018, 264, 510-514.	2.3	13
137	Effect of graphene oxide dispersion in nematic mesogen and their characterization results. <i>Applied Physics A: Materials Science and Processing</i> , 2019, 125, 1.	1.1	13
138	Luminescent Conductive Columnar Gels for Fe(II) Sensing and Bio-Imaging Applications. <i>Journal of Physical Chemistry B</i> , 2020, 124, 10257-10265.	1.2	13
139	Spectroscopic, dielectric and nonlinear current-voltage characterization of a hydrogen-bonded liquid crystalline compound influenced via graphitic nanoflakes: An equilibrium between the experimental and theoretical studies. <i>Journal of Molecular Liquids</i> , 2020, 302, 112537.	2.3	13
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