

# Vijay Pratap Singh

## List of Publications by Year in descending order

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244

papers

5,843

citations

94433

37

h-index

144013

57

g-index

271

all docs

271

docs citations

271

times ranked

3513

citing authors

#	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, .	3.3	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.	2.1	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.	6.0	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.	1.6	129
5	Nitric oxide alleviates arsenic-induced toxic effects in ridged Luffa seedlings. <i>Plant Physiology and Biochemistry</i> , 2013, 71, 155-163.	5.8	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.	5.3	97
7	Influence of Exogenous Silicon Addition on Aluminium Tolerance in Rice Seedlings. <i>Biological Trace Element Research</i> , 2011, 144, 1260-1274.	3.5	94
8	Nitric oxide and hydrogen sulfide: an indispensable combination for plant functioning. <i>Trends in Plant Science</i> , 2021, 26, 1270-1285.	8.8	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.	2.1	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.	5.8	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.	3.8	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.	1.5	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.	5.8	66
14	Effect of TiO <sub>2</sub> nanoparticles dispersion on ionic behaviour in nematic liquid crystal. <i>Liquid Crystals</i> , 2015, 42, 1095-1101.	2.2	65
15	A brief appraisal of ethylene signaling under abiotic stress in plants. <i>Plant Signaling and Behavior</i> , 2020, 15, 1782051.	2.4	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.	12.4	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.	5.2	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.	5.1	55

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19	Silicon crosstalk with reactive oxygen species, phytohormones and other signaling molecules. Journal of Hazardous Materials, 2021, 408, 124820.	12.4	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. Plant Physiology and Biochemistry, 2019, 142, 193-201.	5.8	54
21	Improved dielectric and electro-optical parameters of ZnO nano-particle (8% Cu <sup>2+</sup> ) doped nematic liquid crystal. Journal of Molecular Structure, 2013, 1035, 371-377.	3.6	53
22	Avenues of the membrane transport system in adaptation of plants to abiotic stresses. Critical Reviews in Biotechnology, 2019, 39, 861-883.	9.0	53
23	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
24	Dielectric and electro-optical study of ZnO nano rods doped ferroelectric liquid crystals. Journal of Materials Science, 2011, 46, 5969-5976.	3.7	51
25	Differential effect of UV-B radiation on growth, oxidative stress and ascorbate-glutathione cycle in two cyanobacteria under copper toxicity. Plant Physiology and Biochemistry, 2012, 61, 61-70.	5.8	50
26	Nitrogen alleviates salinity toxicity in Solanum lycopersicum seedlings by regulating ROS homeostasis. Plant Physiology and Biochemistry, 2019, 141, 466-476.	5.8	48
27	Auxin metabolic network regulates the plant response to metalloids stress. Journal of Hazardous Materials, 2021, 405, 124250.	12.4	47
28	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
29	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
30	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
31	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
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. Journal of Materials Chemistry C, 2019, 7, 5724-5738.	5.5	42
33	Nitric oxide in plants: an ancient molecule with new tasks. Plant Growth Regulation, 2020, 90, 1-13.	3.4	42
34	Ferroelectric liquid crystals versus dyed ferroelectric liquid crystals in SmC <sup>*</sup> — phase. Physics Letters, Section A: General, Atomic and Solid State Physics, 2007, 371, 490-498.	2.1	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 <sup>1+</sup> Zn S/ZnS core/shell nanocrystals. Journal of Luminescence, 2016, 173, 250-256.	3.1	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.	2.2	39
38	Silicon and nitric oxide-mediated mechanisms of cadmium toxicity alleviation in wheat seedlings. <i>Physiologia Plantarum</i> , 2022, 174, .	5.2	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.	5.1	39
40	Recent progress and future perspectives on carbon-nanomaterial-dispersed liquid crystal composites. <i>Journal Physics D: Applied Physics</i> , 2022, 55, 083002.	2.8	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.	12.4	38
42	Cd <sub>1-x</sub> Zn <sub>x</sub> 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.	4.9	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.	3.6	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.	2.2	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.	5.2	35
46	Heavy metal induced regulation of plant biology: Recent insights. <i>Physiologia Plantarum</i> , 2022, 174, e13688.	5.2	35
47	Differential responses of pea seedlings to indole acetic acid under manganese toxicity. <i>Acta Physiologiae Plantarum</i> , 2011, 33, 451-462.	2.1	34
48	CdSe quantum dot-dispersed DOBAMBC: an electro-optical study. <i>Liquid Crystals</i> , 2013, 40, 528-533.	2.2	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.	2.1	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.	4.0	33
51	Ferroelectric liquid crystal matrix dispersed with Cu doped ZnO nanoparticles. <i>Journal of Non-Crystalline Solids</i> , 2013, 363, 178-186.	3.1	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.	5.5	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.	12.4	31
54	Cd <sub>1-x</sub> Zn <sub>x</sub> 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.	2.2	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.	3.8	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.	2.3	29
58	Ascorbic acid is essential for inducing chromium (VI) toxicity tolerance in tomato roots. <i>Journal of Biotechnology</i> , 2020, 322, 66-73.	3.8	29
59	Hydrogen sulfide (H <sub>2</sub> 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.	12.4	29
60	Applicability of TiO <sub>2</sub> nanoparticle towards suppression of screening effect in nematic liquid crystal. <i>Journal of Molecular Liquids</i> , 2015, 208, 34-37.	4.9	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.	5.2	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.	3.8	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.	4.9	27
64	Effect of ion trapping behavior of TiO <sub>2</sub> 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.	2.8	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.	3.3	27
67	Electrical And Polarization Behaviour Of Titania Nanoparticles Doped Ferroelectric Liquid Crystal. <i>Advanced Materials Letters</i> , 2015, 6, 68-72.	0.6	27
68	Modification in dielectric properties of SWCNT doped ferroelectric liquid crystals. <i>Journal of Non-Crystalline Solids</i> , 2011, 357, 1822-1826.	3.1	26
69	NO and ROS implications in the organization of root system architecture. <i>Physiologia Plantarum</i> , 2020, 168, 473-489.	5.2	26
70	Implication of nitric oxide and hydrogen sulfide signalling in alleviating arsenate stress in rice seedlings. <i>Environmental Pollution</i> , 2021, 291, 117958.	7.5	26
71	Anilofos Tolerance and Its Mineralization by the Cyanobacterium <i>Synechocystis</i> sp. Strain PUPCCC 64. <i>PLoS ONE</i> , 2013, 8, e53445.	2.5	25
72	Reduced ionic contaminations in CdSe quantum dot dispersed ferroelectric liquid crystal and its applications. <i>Liquid Crystals</i> , 2014, 41, 1356-1365.	2.2	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.	2.2	25
74	Tuning phase retardation behaviour of nematic liquid crystal using quantum dot. <i>Current Applied Physics</i> , 2016, 16, 79-82.	2.4	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.	2.2	25
76	Dielectric and electro-optical parameters of two ferroelectric liquid crystals: a comparative study. <i>Physica Scripta</i> , 2008, 78, 065602.	2.5	24
77	Silicon in plant biology: from past to present, and future challenges. <i>Journal of Experimental Botany</i> , 2020, 71, 6699-6702.	4.8	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.	5.1	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.	1.5	23
80	Analysis of electro-optical and dielectric parameters of TiO <sub>2</sub> nanoparticles dispersed nematic liquid crystal. <i>Soft Materials</i> , 2018, 16, 126-133.	1.7	23
81	SiO <sub>2</sub> nanoparticles doped nematic liquid crystal system: An experimental investigation on optical and dielectric properties. <i>Chinese Journal of Physics</i> , 2019, 57, 82-89.	3.9	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.	5.8	23
83	Nanoparticles as a potential protective agent for arsenic toxicity alleviation in plants. <i>Environmental Pollution</i> , 2022, 300, 118887.	7.5	23
84	Thermal and optical study of semiconducting CNTs-doped nematic liquid crystalline material. <i>Phase Transitions</i> , 2016, 89, 632-642.	1.3	22
85	The scientific duo of TiO <sub>2</sub> 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.	4.9	22
86	Early diagnosis of lung cancer using magnetic nanoparticles-integrated systems. <i>Nanotechnology Reviews</i> , 2022, 11, 544-574.	5.8	22
87	Dielectric Relaxation of FLC Showing Anomalous Behavior. <i>Soft Materials</i> , 2007, 5, 207-218.	1.7	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.	2.0	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.	2.5	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.	2.3	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.	7.5	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.	2.4	20
93	Electro-optical, UV absorbance, and UV photoluminescence analysis of Se <sub>95</sub> In <sub>5</sub> chalcogenide glass microparticle doped ferroelectric liquid crystal. <i>Journal of Applied Physics</i> , 2014, 115, .	2.5	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.	2.8	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.	2.2	20
96	Charge Transport in Novel Phenazine Fused Triphenylene Supramolecular Systems. <i>ChemistrySelect</i> , 2018, 3, 6551-6560.	1.5	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.	2.2	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.	5.5	20
99	SWCNT doped ferroelectric liquid crystal: The electro-optical properties with enhanced dipolar contribution. <i>Current Applied Physics</i> , 2013, 13, 684-687.	2.4	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.	4.9	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.	2.8	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.	4.9	19
103	Improved dielectric and electro-optical parameters of nematic liquid crystal doped with magnetic nanoparticles. <i>Chinese Physics B</i> , 2019, 28, 034209.	1.4	19
104	The phenomenon of induced photoluminescence in ferroelectric mesophase. <i>Journal of Luminescence</i> , 2013, 139, 60-63.	3.1	18
105	Concentration Dependent Physical Parameters of Ferroelectric Liquid Crystal and ZnOS Nano Material Composite System. <i>Soft Materials</i> , 2013, 11, 305-314.	1.7	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.	3.1	18
107	Mn <sup>2+</sup> 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, .	2.5	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.	3.1	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.	2.8	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.	2.4	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.	6.0	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.	9.1	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.	2.2	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.	3.6	17
116	A bridged ruthenium dimer (Ru-Ru) for photoreduction of CO <sub>2</sub> under visible light irradiation. <i>Journal of Industrial and Engineering Chemistry</i> , 2018, 61, 381-387.	5.8	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.	2.2	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.	2.2	16
119	Liquid crystal lens with doping of rutile titanium dioxide nanoparticles. <i>Optics Express</i> , 2020, 28, 22856.	3.4	16
120	Silica nanoparticles: the rising star in plant disease protection. <i>Trends in Plant Science</i> , 2022, 27, 7-9.	8.8	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.	2.1	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.	4.9	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.	2.3	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.	5.1	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.	1.2	14
126	Reduction of optical response time for fluorescent dye doped ferroelectric liquid crystal. <i>Journal of Molecular Liquids</i> , 2012, 175, 67-71.	4.9	14



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127	$\langle \text{mml:math xmlns:mml}=\text{"http://www.w3.org/1998/Math/MathML"} \text{ id}=\text{"M1"} \rangle \langle \text{mml:mtext} \rangle \text{Zn} \langle \text{mml:mtext} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mtext} \rangle \text{O} \langle \text{mml:mtext} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \rangle \text{I} \langle \text{mml:mtext} \rangle \text{ in Ferroelectric Liquid Crystal Matrix: The Effect of Aggregation and Defects on the Dielectric and Electro-Optical Properties. Advances in Condensed Matter Physics, 2013, 2013, 1-10.}$	1.1	14
128	Influence of $\text{Fe}_2\text{O}_3$ nanoparticles on the birefringence property of weakly polar nematic liquid crystal. Molecular Crystals and Liquid Crystals, 2019, 680, 65-74.	0.9	14
129	Orientation of 4-octyl-4'-cyanobiphenyl molecules on graphene oxide surface via electron-phonon interaction and its applications in nonlinear electronics. Journal of Materials Chemistry C, 2019, 7, 2734-2743.	5.5	14
130	Carbon Nanotubes Blended Nematic Liquid Crystal for Display and Electro-Optical Applications. Electronic Materials, 2021, 2, 466-481.	1.9	14
131	Dielectric, thermal and optical study of an unusually shaped liquid crystal. Journal of Physics and Chemistry of Solids, 2010, 71, 1684-1689.	4.0	13
132	Polymer-induced improvements in ferroelectric liquid crystal. Polymer Composites, 2010, 31, 1776-1781.	4.6	13
133	Impact of low and high fluence rates of UV-B radiation on growth and oxidative stress in Phormidium foveolarum and Nostoc muscorum under copper toxicity: differential display of antioxidants system. Acta Physiologiae Plantarum, 2012, 34, 2225-2239.	2.1	13
134	Guest-host interaction in ferroelectric liquid crystal-nanoparticle composite system. Bulletin of Materials Science, 2014, 37, 511-518.	1.7	13
135	$\text{CuInS}_2/\text{ZnS}$ QD-ferroelectric liquid crystal mixtures for faster electro-optical devices and their energy storage aspects. Journal of Applied Physics, 2018, 123, .	2.5	13
136	Dielectric and spectroscopic study of nano-sized diamond dispersed ferroelectric liquid crystal. Journal of Molecular Liquids, 2018, 264, 510-514.	4.9	13
137	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
138	Luminescent Conductive Columnar Gels for $\text{Fe(II)}$ Sensing and Bio-Imaging Applications. Journal of Physical Chemistry B, 2020, 124, 10257-10265.	2.6	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. Journal of Molecular Liquids, 2020, 302, 112537.	4.9	13
140	Low and high doses of UV-B differentially modulate chlorpyrifos-induced alterations in nitrogen metabolism of cyanobacteria. Ecotoxicology and Environmental Safety, 2014, 107, 291-299.	6.0	12
141	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
142	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
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