Luiz R Evangelista

List of Publications by Year
in descending order

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150 papers	2,131 citations	331670 21 h-index	361022 35 g-index
156 all docs	156 docs citations	156 times ranked	1379 citing authors

#	Article	IF	Citations
1	Anomalous Diffusion and Surface Effects on the Electric Response of Electrolytic Cells. Physchem, 2022, 2, 163-178.	1.1	7
2	Fractional SchrÃ¶dinger equation and anomalous relaxation: Nonlocal terms and delta potentials. Modern Physics Letters A, 2021, 36, 2140004.	1.2	8
3	A Model for Bias Potential Effects on the Effective Langmuir Adsorptionâ€“Desorption Processes. Electronic Materials, 2021, 2, 125-141.	1.9	1
4	Ecosystem multifunctionality and stability are enhanced by macrophyte richness in mesocosms. Aquatic Sciences, 2021, 83, 1.	1.5	8
5	Spaceâ€“time fractional diffusion equations in d-dimensions. Journal of Mathematical Physics, 2021, 62, .	1.1	2
6	Frustrated structures and pattern formation after thermal quenches in cholesteric liquid crystal droplets. Journal of Materials Chemistry C, 2021, 9, 8623-8639.	5.5	8
7	Sorptionâ€“desorption, surface diffusion, and memory effects in a 3D system. Journal of Statistical Mechanics: Theory and Experiment, 2021, 2021, 113202.	2.3	0
8	The low-frequency limiting behavior of ambipolar diffusive models of impedance spectroscopy. Journal of Statistical Mechanics: Theory and Experiment, 2021, 2021, 123206.	2.3	1
9	Currentâ€“Voltage Characteristics and Impedance Spectroscopy: Surface Conduction and Adsorptionâ€“Desorption Effects in Electrolytic Cells. Journal of Physical Chemistry C, 2020, 124, 3150-3158.	3.1	9
10	Coarse-grained model of the nematic twist-bend phase from a stable state elastic energy. Physical Review E, 2020, 101, 012702.	2.1	3
11	Elastic constants and the formation of topological defects in hybrid nematic cells: A Monte Carlo study. Physical Review E, 2020, 102, 042702.	2.1	1
12	Frequency dispersion in the fractional Langmuir approximation for the adsorptionâ€“desorption phenomena. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2020, 476, 20190570.	2.1	3
13	Solutions for a hyperbolic diffusion equation with linear reaction terms. Journal of Statistical Mechanics: Theory and Experiment, 2020, 2020, 113205.	2.3	3
14	Reliability of Poissonâ€“Nernstâ€“Planck Anomalous Models for Impedance Spectroscopy. Journal of Physical Chemistry B, 2019, 123, 7885-7892.	2.6	10
15	Extensions and solutions for nonlinear diffusion equations and random walks. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2019, 475, 20190432.	2.1	14
16	Influence of boundary conditions on the order and defects of biaxial nematic droplets. Physical Review E, 2019, 100, 032702.	2.1	1
17	Molecular Ordering of Nematics Between Concentric Cylinders: Results and Perspectives. Molecular Crystals and Liquid Crystals, 2019, 683, 56-68.	0.9	0
18	Surface induced twist in nematic and chiral nematic liquid crystals: stick-slip-like and constrained motion. Soft Matter, 2018, 14, 2084-2093.	2.7	8

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19	On the Defect Structure of Biaxial Nematic Droplets. Scientific Reports, 2018, 8, 2130.	3.3	11
20	Phenomenological adsorption isotherm for a binary system based on Poissonâ€“Boltzmann equation. Surfaces and Interfaces, 2018, 10, 50-57.	3.0	7
21	Effect of dynamically changing the substrateâ€™s easy axis on the response time of nematic samples. Journal of Physics Condensed Matter, 2018, 30, 505401.	1.8	0
22	Nonlocal Diffusion in Porous Media: A Spatial Fractional Approach. Journal of Engineering Mechanics - ASCE, 2017, 143, .	2.9	14
23	Symmetry breaking in an electrolytic cell under AC field and non-identical adsorbing electrodes. Journal of Electroanalytical Chemistry, 2017, 789, 44-49.	3.8	4
24	Ion Motion in Electrolytic Cells: Anomalous Diffusion Evidences. Journal of Physical Chemistry B, 2017, 121, 2882-2886.	2.6	17
25	Elastic anisotropy effects on the electrical responses of a thin sample of nematic liquid crystal. Physical Review E, 2017, 95, 032704.	2.1	4
26	Behaviour of twist-bend nematic structure under a uniform magnetic field. Molecular Crystals and Liquid Crystals, 2017, 649, 71-78.	0.9	5
27	Computer simulation of a nematic hybrid cell: The effects of elastic anisotropy. Molecular Crystals and Liquid Crystals, 2017, 649, 86-93.	0.9	5
28	Role of the surface anchoring energy on the spontaneous modulated pattern formation of hybrid aligned cholesteric liquid crystals. Molecular Crystals and Liquid Crystals, 2017, 657, 107-115.	0.9	4
29	Modulated phases as variational solutions in liquid-crystalline systems. Molecular Crystals and Liquid Crystals, 2017, 657, 72-80.	0.9	1
30	Intermittent Motion, Nonlinear Diffusion Equation and Tsallis Formalism. Entropy, 2017, 19, 42.	2.2	11
31	Field effects on inversion walls in nematic films: A computer simulation study. International Journal of Modern Physics C, 2016, 27, 1650114.	1.7	2
32	Anomalous diffusion and transport in heterogeneous systems separated by a membrane. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2016, 472, 20160502.	2.1	10
33	Elastic continuum theory: Towards understanding of the twist-bend nematic phases. Physical Review E, 2015, 92, 030501.	2.1	56
34	Nematic liquid crystals in planar and cylindrical hybrid cells: Role of elastic anisotropy on the director deformations. Physical Review E, 2015, 92, 012501.	2.1	7
35	Unusual diffusing regimes caused by different adsorbing surfaces. Soft Matter, 2015, 11, 1658-1666.	2.7	29
36	Equilibrium modeling of ion adsorption based on Poissonâ€“Boltzmann equation. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2015, 468, 159-166.	4.7	17

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37	Molecular organization of nematic liquid crystals between concentric cylinders: Role of the elastic anisotropy. Physical Review E, 2015, 91, 022501.	2.1	10
38	Effect of Surface Anchoring on Creation of Defects in a Nematic Film. A Monte Carlo Simulation. Molecular Crystals and Liquid Crystals, 2015, 614, 137-143.	0.9	1
39	A framework to investigate the immittance responses for finite length-situations: Fractional diffusion equation, reaction term, and boundary conditions. Journal of Electroanalytical Chemistry, 2014, 712, 82-88.	3.8	19
40	Adsorptionâ€“desorption phenomena and diffusion of neutral particles in the hyperbolic regime. Journal of Physics A: Mathematical and Theoretical, 2014, 47, 015002.	2.1	5
41	Pseudo-molecular approach for the elastic constants of nematic liquid crystals interacting via anisotropic dispersion forces. Physics Letters, Section A: General, Atomic and Solid State Physics, 2014, 378, 453-458.	2.1	1
42	Effect of surface viscosity, anchoring energy, and cell gap on the response time of nematic liquid crystals. Annals of Physics, 2014, 346, 14-21.	2.8	7
43	Modeling Nematic Liquid Crystals: Analytical Solution for the Balance of Torques Equation With Moment of Inertia and Surface Viscosity. Molecular Crystals and Liquid Crystals, 2013, 576, 32-41.	0.9	1
44	Electrical current profile of a confined isotropic liquid sample: Biological systems and liquid crystals applications. Chemical Physics Letters, 2013, 588, 87-90.	2.6	6
45	The Kramersâ€“Kronig relations for usual and anomalous Poissonâ€“Nernstâ€“Planck models. Journal of Physics Condensed Matter, 2013, 25, 465104.	1.8	0
46	A Connection Between Anomalous Poissonâ€“Nernstâ€–Planck Model and Equivalent Circuits with Constant Phase Elements. Journal of Physical Chemistry C, 2013, 117, 23685-23690.	3.1	42
47	Surface Induced Phase Separation and Pattern Formation at the Isotropic Interface in Chiral Nematic Liquid Crystals. Physical Review Letters, 2013, 110, 057801.	7.8	42
48	Nematics in Hybrid Cylindrical Cells. Molecular Crystals and Liquid Crystals, 2013, 576, 42-52.	0.9	6
49	Role of Van der Waals Interaction on Selective Ion Adsorption in Liquid Crystals. Molecular Crystals and Liquid Crystals, 2013, 576, 118-126.	0.9	0
50	On the equivalence between specific adsorption and kinetic equation descriptions of the admittance response in electrolytic cells. Journal of Chemical Physics, 2013, 138, 114702.	3.0	14
51	Anomalous Diffusion Effects on the Electrical Impedance Response of Liquid-Crystalline Systems. Molecular Crystals and Liquid Crystals, 2013, 576, 23-31.	0.9	5
52	Solutions of Some Nonlinear Diffusion Equations and Generalized Entropy Framework. Entropy, 2013, 15, 3931-3940.	2.2	4
53	Non-Debye relaxation in the dielectric response of nematic liquid crystals: Surface and memory effects in the adsorption-desorption process of ionic impurities. Physical Review E, 2012, 86, 051705.	2.1	27
54	Surface viscosity and anchoring energy effects on the relaxation of a nematic liquid crystal cell. Liquid Crystals, 2012, 39, 647-654.	2.2	2

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55	Fractional Diffusion Equation and the Electrical Impedance: Experimental Evidence in Liquid-Crystalline Cells. Journal of Physical Chemistry C, 2012, 116, 8773-8777.	3.1	57
56	Immittance response of an electrolytic cell in the presence of adsorption, generation, and recombination of ions. Journal of Electroanalytical Chemistry, 2012, 682, 116-120.	3.8	18
57	Fractional SchrÃ¶dinger equation with noninteger dimensions. Applied Mathematics and Computation, 2012, 219, 2313-2319.	2.2	17
58	A Poissonâ€“Boltzmann description for the double-layer capacitance of an electrolytic cell. Physics Letters, Section A: General, Atomic and Solid State Physics, 2012, 376, 3382-3385.	2.1	5
59	Comparison of diversity indices applied to macrophyte incidence-based data. Brazilian Archives of Biology and Technology, 2012, 55, 277-282.	0.5	5
60	Anomalous Decay in Short Time Response of Ternary Mixtures with Ferrofluid. Brazilian Journal of Physics, 2012, 42, 14-19.	1.4	0
61	Anomalous diffusion governed by a fractional diffusion equation and the electrical response of an electrolytic cell. Journal of Chemical Physics, 2011, 135, 114704.	3.0	64
62	Comparison of Impedance Spectroscopy Expressions and Responses of Alternate Anomalous Poissonâ^'Nernstâ^'Planck Diffusion Equations for Finite-Length Situations. Journal of Physical Chemistry C, 2011, 115, 7648-7655.	3.1	59
63	Computer simulations of the ordering in a hybrid cylindrical film of nematic liquid crystals. Physical Review E, 2011, 84, 041705.	2.1	10
64	Perturbative Approach to the Relaxation of the Nematic Deformation: Surface Viscosity and Electric Field. Molecular Crystals and Liquid Crystals, 2011, 546, 57/[1527]-66/[1536].	0.9	0
65	Ion adsorption and external electric field effects on isotropic liquids using a Fermi-like distribution. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2011, 388, 77-83.	4.7	1
66	The soundscape dynamics of human agglomeration. New Journal of Physics, 2011, 13, 023028.	2.9	5
67	Solutions for a diffusion equation with a backbone term. Journal of Statistical Mechanics: Theory and Experiment, 2011, 2011, P02022.	2.3	9
68	Exact propagator for a Fokker-Planck equation, first passage time distribution, and anomalous diffusion. Journal of Mathematical Physics, 2011, 52, 083301.	1.1	5
69	LATTICE SPIN SIMULATIONS OF TOPOLOGICAL DEFECTS IN NEMATIC FILMS WITH HYBRID SURFACE ALIGNMENTS. International Journal of Modern Physics C, 2011, 22, 505-516.	1.7	13
70	Anomalous diffusion and memory effects on the impedance spectroscopy for finite-length situations. Journal of Physics Condensed Matter, 2011, 23, 485005.	1.8	18
71	Solutions for a non-Markovian diffusion equation. Physics Letters, Section A: General, Atomic and Solid State Physics, 2010, 374, 4193-4198.	2.1	15
72	Critical exponents for FrÃ©edericskz transition in nematics between concentric cylinders. Physica A: Statistical Mechanics and Its Applications, 2010, 389, 945-950.	2.6	11

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73	A model for selective adsorption with a localized adsorption energy. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2010, 358, 149-152.	4.7	6
74	Non-Markovian diffusion and the adsorption-desorption process. Physical Review E, 2010, 81, 011116.	2.1	37
75	Surface viscosity and reorientation process in an asymmetric nematic cell. Liquid Crystals, 2010, 37, 1559-1568.	2.2	6
76	Molecular Orientation of a Nematic Between Concentric Cylinders: Weak Anchoring Situation. Molecular Crystals and Liquid Crystals, 2010, 526, 82-92.	0.9	6
77	Generalized entropy indices to measure Î±- and Î²-diversities of macrophytes. Brazilian Journal of Physics, 2009, 39, 369-401.	1.4	4
78	Nonlocal effects on the thermal behavior of non-crystalline solids. Brazilian Journal of Physics, 2009, 39, 507-510.	1.4	10
79	Reorientation effect and electrical current in a weakly anchored nematic cell. Physical Review E, 2009, 80, 041702.	2.1	3
80	Fokker-Planck equation in a wedge domain: Anomalous diffusion and survival probability. Physical Review E, 2009, 80, 021131.	2.1	5
81	Anomalous diffusion and the adsorption-desorption process in anisotropic media. Europhysics Letters, 2009, 85, 28004.	2.0	26
82	Some results for a fractional diffusion equation with radial symmetry in a confined region. Physica A: Statistical Mechanics and Its Applications, 2009, 388, 806-810.	2.6	15
83	Fractional Diffusion Equation and Impedance Spectroscopy of Electrolytic Cells. Journal of Physical Chemistry B, 2009, 113, 11371-11374.	2.6	60
84	Solutions for a fractional nonlinear diffusion equation with external force and absorbent term. Journal of Statistical Mechanics: Theory and Experiment, 2009, 2009, P02048.	2.3	6
85	Influence of aquatic macrophyte habitat complexity on invertebrate abundance and richness in tropical lagoons. Freshwater Biology, 2008, 53, 358-367.	2.4	128
86	Results for a fractional diffusion equation with a nonlocal term in spherical symmetry. Physics Letters, Section A: General, Atomic and Solid State Physics, 2008, 372, 6121-6124.	2.1	8
87	Exact solutions for a diffusion equation with a nonlinear external force. Physics Letters, Section A: General, Atomic and Solid State Physics, 2008, 372, 2359-2363.	2.1	7
88	Elastic constants of a nematic liquid crystal: Quadrupoleâ€“quadrupole interaction in the ellipsoidal approximation. Physics Letters, Section A: General, Atomic and Solid State Physics, 2008, 372, 6521-6526.	2.1	8
89	Current measurements across a nematic cell submitted to an external voltage and its equivalent electrical circuit. Chemical Physics Letters, 2008, 461, 164-169.	2.6	8
90	Exact solutions for a forced Burgers equation with a linear external force. Physica A: Statistical Mechanics and Its Applications, 2008, 387, 2690-2696.	2.6	9

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91	Solutions for a fractional diffusion equation with spherical symmetry using Green function approach. Chemical Physics, 2008, 344, 90-94.	1.9	13
92	Fractional approach, quantum statistics, and non-crystalline solids at very low temperatures. European Physical Journal B, 2008, 62, 155-158.	1.5	27
93	A unified index to measure ecological diversity and species rarity. Ecography, 2008, 31, 450-456.	4.5	73
94	A Model for Selective Ion Adsorption Including van der Waals Interaction. Journal of Physical Chemistry B, 2008, 112, 1693-1698.	2.6	4
95	Solutions for a SchrÃ¶dinger equation with a nonlocal term. Journal of Mathematical Physics, 2008, 49, .	1.1	30
96	Generalization of Berremanâ€™s model to the case of large amplitude of the grooves. Physical Review E, 2008, 77, 051703.	2.1	18
97	Solution of the mixed Dirichletâ€“Neumann problem for molecular orientation in liquid crystals. Liquid Crystals, 2007, 34, 1107-1114.	2.2	1
98	Fractional diffusion equation in a confined region: Surface effects and exact solutions. Physical Review E, 2007, 76, 032102.	2.1	14
99	Memory effect in the adsorption phenomena of neutral particles. Physical Review E, 2007, 75, 042601.	2.1	33
100	Semiclassical approximation for the specific heat of non-crystalline solids at intermediate temperatures. Philosophical Magazine, 2007, 87, 291-297.	1.6	6
101	Surface stabilized layer of a surface drying phase. Chemical Physics Letters, 2007, 434, 144-148.	2.6	0
102	Kinetic equation with memory effect for adsorptionâ€“desorption phenomena. Chemical Physics Letters, 2007, 438, 144-147.	2.6	22
103	Fractional nonlinear diffusion equation, solutions and anomalous diffusion. Physica A: Statistical Mechanics and Its Applications, 2007, 375, 65-71.	2.6	26
104	A density study of the textural transition in the nematic phases of a dimerized system. Journal of Molecular Liquids, 2007, 133, 43-46.	4.9	6
105	Fractional diffusion equation with an absorbent term and a linear external force: Exact solution. Physics Letters, Section A: General, Atomic and Solid State Physics, 2007, 366, 346-350.	2.1	21
106	Adsorptionâ€“desorption phenomenon and the kinetic equation at interfaces in liquid crystalline systems. Liquid Crystals, 2006, 33, 1-15.	2.2	5
107	Phononâ€“roton-like elementary excitations and low-temperature behaviour of non-crystalline solids. Philosophical Magazine, 2006, 86, 227-235.	1.6	14
108	Dependence of the Anchoring Energy on the Applied Voltage in a Nematic Cell. Journal of Physical Chemistry B, 2006, 110, 11047-11049.	2.6	3

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109	Effective Screening Length of Isotropic Liquid Samples Submitted to an Applied Voltage. Journal of Physical Chemistry B, 2006, 110, 10186-10189.	2.6	6
110	Ionic contribution to the electric current in an electrolytic cell submitted to an external voltage. Physical Review E, 2006, 74, 022501.	2.1	5
111	Exact tilt angle profiles for splayâ€“bend deformations in nematic liquid crystals. Liquid Crystals, 2006, 33, 409-415.	2.2	1
112	Tilt Angle Profiles for Splay-Bend Deformations in a Nematic Sample Submitted to an External Field. Molecular Crystals and Liquid Crystals, 2006, 449, 191-200.	0.9	0
113	Phenomenological analysis of the light intensity dependence of the photoalignment process in azo-containing polymeric films. Physical Review E, 2006, 74, 011802.	2.1	8
114	Destabilizing effect of a surface electric field generated by ionic adsorption on the molecular orientation of nematic liquid crystals. European Physical Journal E, 2005, 16, 267-272.	1.6	5
115	Effect of microtextured substrates on the molecular orientation of a nematic liquid-crystal sample. Physical Review E, 2005, 72, 031710.	2.1	9
116	Bend and splay elastic constants at a reentrant isotropicâ€“calamitic-nematic phase transition. Physical Review E, 2005, 72, 031707.	2.1	4
117	Dynamical behavior of the director field for splay-bend deformations in nematic liquid crystals. Physical Review E, 2005, 72, 042701.	2.1	2
118	Adsorption phenomenon of neutral particles and a kinetic equation at the interface. Physical Review E, 2004, 70, 031605.	2.1	20
119	Deformation free energy and elastic description of a self-assembled system. Physical Review E, 2004, 70, 041407.	2.1	1
120	Statistical interpretation of the kinetic equation in the adsorption problem. European Physical Journal E, 2004, 15, 3-8.	1.6	12
121	Effect of the incomplete interaction on the nematicâ€“isotropic transition at the nematicâ€“wall interface. Physics Letters, Section A: General, Atomic and Solid State Physics, 2004, 324, 198-202.	2.1	5
122	Intrinsic characteristic times in the drift-diffusion problem. Liquid Crystals, 2004, 31, 1399-1405.	2.2	3
123	Comment on â€œOptical determination of flexoelectric coefficients and surface polarization in a hybrid aligned nematic cellâ€. Physical Review E, 2003, 68, 023701; author reply 023702.	2.1	13
124	Spontaneous periodic distortions in nematic liquid crystals: Dependence on the tilt angle. Physical Review E, 2003, 67, 051708.	2.1	14
125	Contribution of the ionic adsorption phenomenon to the effective anchoring energy of a nematic liquid-crystal sample. Physical Review E, 2003, 68, 040701.	2.1	13
126	Role of the linear elastic term in the spatial derivatives of the nematic director in a 1D geometry. Liquid Crystals, 2003, 30, 633-642.	2.2	8

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127	Local self-consistent approach to the phase transition at the nematic liquid-crystal-wall interface. Physical Review E, 2002, 65, 031708.	2.1	5
128	Photomanipulation of the anchoring strength of a photochromic nematic liquid crystal. Physical Review E, 2002, 65, 041719.	2.1	17
129	External electric-field effect on nematic anchoring energy. Physical Review E, 2002, 65, 031721.	2.1	26
130	Adsorption phenomenon and external field effect on an isotropic liquid containing impurities. Physical Review E, 2001, 64, 021101.	2.1	21
131	Asymmetric ionic adsorption and cell polarization in liquid crystals. Journal of Applied Physics, 2000, 87, 2646-2648.	2.5	19
132	Concentration dependence of the scalar order parameter in liquid-crystalline systems with variable molecular shape. Physical Review E, 2000, 61, 2749-2752.	2.1	9
133	Ionic adsorption and equilibrium distribution of charges in a nematic cell. Physical Review E, 1999, 59, 1846-1849.	2.1	51
134	Micellar shape anisotropy and elastic constants in discotic lyotropic liquid crystals. Physical Review E, 1999, 60, 6195-6198.	2.1	9
135	Elastic constants in a pseudomolecular approach for a mixed Maier-Saupe and Nehring-Saupe interaction law. Physical Review E, 1998, 58, 3245-3250.	2.1	15
136	Surface defects and forces in nematic liquid crystal samples. Physical Review E, 1996, 53, 4202-4205.	2.1	2
137	Geometrical anisotropy dependence of thermal diffusivity in lyotropic nematics: Mode mismatched thermal lens measurements. Applied Physics Letters, 1996, 68, 3371-3373.	3.3	25
138	Periodic distortions in lyotropic nematic calamitic liquid crystals. Physical Review E, 1996, 54, 3765-3770.	2.1	16
139	On the validity of the elastic model for the nematic surface anchoring energy. Liquid Crystals, 1996, 20, 105-108.	2.2	4
140	Anchoring strength of a lyotropic nematic liquid crystal. Physical Review E, 1995, 51, R5204-R5207.	2.1	15
141	Influence of spatial inhomogeneities on the FrÃ©edericksz threshold. Physical Review E, 1995, 52, 1220-1222.	2.1	2
142	The phase transition in amphiphilic monolayers: isotherms in the cluster variation method. Journal of Physics Condensed Matter, 1994, 6, 5323-5334.	1.8	5
143	Walls of orientation induced in nematic-liquid-crystal samples by inhomogeneous surfaces. Physical Review E, 1994, 50, 2120-2133.	2.1	11
144	Interfacial energy for nematic liquid crystals : beyond the spherical approximation. Journal De Physique II, 1994, 4, 1519-1540.	0.9	10

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145	Theoretical analysis of actual surfaces: The effect on the nematic orientation. Physical Review E, 1993, 48, 1163-1171.	2.1	18
146	Classical and quantum structures in the kicked-top model. Physical Review A, 1992, 45, 3646-3658.	2.5	44
147	Critical Properties of Bondâ€•and Siteâ€Diluted Triangular Lattice Ising Model. Physica Status Solidi (B): Basic Research, 1986, 137, K31.	1.5	1
148	Two-step renormalisation group approach for randomly diluted Ising models. Journal of Physics A, 1985, 18, L389-L394.	1.6	6
149	A continuum description for cholesteric and nematic twist-bend phases based on symmetry considerations. Liquid Crystals, 0, , 1-7.	2.2	10
150	Topological defects in nematic films between planar degenerate surfaces. A Monte Carlo study. International Journal of Modern Physics C, 0, , 2250016.	1.7	0