

L Benguigui

List of Publications by Year in descending order

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88
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2,166
citations

257450

24
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254184

43
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91
all docs

91
docs citations

91
times ranked

1098
citing authors

#	ARTICLE	IF	CITATIONS
1	Experimental Study of the Elastic Properties of a Percolating System. Physical Review Letters, 1984, 53, 2028-2030.	7.8	136
2	X-ray study of the PZT solid solutions near the morphotropic phase transition. Solid State Communications, 1974, 15, 1077-1079.	1.9	125
3	Ferroelectricity in zinc cadmium telluride. Physical Review Letters, 1989, 62, 2744-2746.	7.8	101
4	Thermodynamic theory of the morphotropic phase transition tetragonal-rhombohedral in the perovskite ferroelectrics. Solid State Communications, 1972, 11, 825-828.	1.9	86
5	Electrical and dielectric properties of segregated carbon black-polyethylene systems. Polymer Engineering and Science, 1990, 30, 459-468.	3.1	84
6	Is the Suburban Railway System a Fractal?. Geographical Analysis, 1991, 23, 362-368.	3.5	79
7	Direct determination of the coexistence region in the solid solutions $Pb(Zr_xTi_{1-x})O_3$. Journal Physics D: Applied Physics, 1975, 8, 1856-1862.	2.8	76
8	Selective reflection by helicoidal liquid crystals. results of an exact calculation using the 4×4 characteristic matrix method. Journal De Physique, 1985, 46, 815-825.	1.8	74
9	On the percolative behavior of carbon black cross-linked polyethylene systems. Journal of Polymer Science, Part B: Polymer Physics, 1987, 25, 127-135.	2.1	72
10	More about the dielectrophoretic force. Journal of Applied Physics, 1982, 53, 1141-1143.	2.5	71
11	The tricritical point in $BaTiO_3$. Journal of Physics C: Solid State Physics, 1977, 10, 1963-1967.	1.5	67
12	A Fractal Analysis of the Public Transportation System of Paris. Environment and Planning A, 1995, 27, 1147-1161.	3.6	52
13	Phenomenological theory of the polarized helicoidal smectic C phase. Physical Review A, 1977, 16, 394-401.	2.5	46
14	Diffused phase transitions in $BaxSr_{1-x}TiO_3$ single crystals. Journal of Applied Physics, 1976, 47, 2787-2791.	2.5	45
15	Ferroelectricity and antiferroelectricity in pure and Nb_2O_5 doped lead zirconate. Journal of Solid State Chemistry, 1971, 3, 381-386.	2.9	43
16	Smectic- $A \rightarrow$ smectic-C transition: Mean-field and critical behaviors. Physical Review Letters, 1989, 63, 774-777.	7.8	43
17	Lattice and continuum percolation transport exponents: Experiments in two-dimensions. Physical Review B, 1986, 34, 8176-8178.	3.2	40
18	Disordered ferroelectrics: $BaxSr_{1-x}TiO_3$ single crystals. Physica Status Solidi A, 1978, 46, 337-342.	1.7	36

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19	Simulation Analysis of the Fractality of Cities. <i>Geographical Analysis</i> , 2004, 36, 69-84.	3.5	34
20	Strain and stress at the fracture of percolative media. <i>Journal De Physique</i> , 1987, 48, 1547-1551.	1.8	31
21	A new aggregation model. Application to town growth. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1995, 219, 13-26.	2.6	28
22	Dielectric relaxation in the crystalline smectic-B phase. <i>Physical Review A</i> , 1983, 28, 1852-1854.	2.5	27
23	On the properties of PZT solid solutions: A reply to a comment. <i>Solid State Communications</i> , 1976, 19, 979-981.	1.9	26
24	Light transmission measurements in the liquid crystal SmC* phase of DOBAMBC at normal incidence. <i>Journal De Physique</i> , 1985, 46, 1429-1433.	1.8	26
25	Ferroelectric properties of Cd _{1-x} Zn _x Te solid solutions. <i>Journal of Applied Physics</i> , 1993, 74, 513-520.	2.5	25
26	Dielectric anisotropy in the smectic phases of liquid crystals. <i>Journal De Physique</i> , 1980, 41, 341-344.	1.8	25
27	The fractal dimension of some railway networks. <i>Journal De Physique, I</i> , 1992, 2, 385-388.	1.2	24
28	Change of the Order of a Phase Transition by the Influence of an External Parameter. <i>Physica Status Solidi (B): Basic Research</i> , 1973, 60, 835-841.	1.5	23
29	Electrical phenomena in barium titanate ceramics. <i>Journal of Physics and Chemistry of Solids</i> , 1973, 34, 573-581.	4.0	23
30	Dielectrophoretic Filtration of Nonconductive Liquids. <i>Separation Science and Technology</i> , 1982, 17, 1003-1017.	2.5	23
31	Phenomenological aspect of particle trapping by dielectrophoresis. <i>Journal of Applied Physics</i> , 1984, 56, 3294-3297.	2.5	23
32	The dielectrophoresis force. <i>American Journal of Physics</i> , 1986, 54, 447-450.	0.7	22
33	The end of a paradigm: is Zipf's law universal?. <i>Journal of Geographical Systems</i> , 2011, 13, 87-100.	3.1	22
34	Thermodynamics of diffused phase transitions in dirty ferroelectrics. <i>Solid State Communications</i> , 1974, 14, 669-672.	1.9	20
35	Dielectrophoretic Filtration and Separation: General Outlook. <i>Separation and Purification Reviews</i> , 1981, 10, 53-72.	0.8	20
36	Simulation of dielectric failure by means of resistor-diode random lattices. <i>Physical Review B</i> , 1988, 38, 7211-7214.	3.2	20

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37	Topological classification of phase transitions. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1973, 45, 315-316.	2.1	19
38	Dielectrophoretic Filtration of Liquids. II. Conducting Liquids. <i>Separation Science and Technology</i> , 1982, 17, 645-654.	2.5	19
39	Tricriticality in Co-doped BaTiO ₃ . <i>Physical Review B</i> , 1981, 23, 5866-5870.	3.2	18
40	High-intensity, high-gradient electric separation and dielectric filtration of particulate and granular materials. <i>Journal of Electrostatics</i> , 1982, 13, 257-278.	1.9	18
41	Changement de phases ferroélectriques-antiferroélectriques par l'action d'un champ électrique. Applications aux solutions solides à base de PbZrO ₃ . <i>Canadian Journal of Physics</i> , 1968, 46, 1627-1636.	1.1	17
42	Critical regions at a first-order transition. <i>Journal of Physics C: Solid State Physics</i> , 1975, 8, 17-28.	1.5	16
43	Experimental analysis of dielectrophoretic forces. <i>Journal of Applied Physics</i> , 1978, 49, 2536.	2.5	16
44	Dielectric properties of medium thermal black-polyethylene systems. <i>Polymer Engineering and Science</i> , 1988, 28, 1581-1585.	3.1	16
45	Lifshitz point in the smectic A phases. <i>Journal De Physique</i> , 1983, 44, 273-278.	1.8	16
46	Determination of the tilt angle in the smectic C phase of bis-(heptyloxy)-azoxybenzene by means of dielectric measurements. <i>Physica Status Solidi A</i> , 1978, 47, 71-78.	1.7	15
47	Dielectric relaxation and nematic order in liquid crystals. <i>Physical Review A</i> , 1984, 29, 2968-2970.	2.5	14
48	Dielectrophoretic Filtration in Time-Dependent Fields. <i>Separation Science and Technology</i> , 1985, 20, 359-376.	2.5	14
49	Diffuse phase transition in co doped barium titanate. <i>Ferroelectrics</i> , 1981, 34, 169-174.	0.6	13
50	Reentrant smectic-C and smectic-C* phases in liquid crystals under an electric field. <i>Physical Review E</i> , 1994, 49, 4221-4227.	2.1	13
51	Rippled state in the smectic-A phases. <i>Physical Review A</i> , 1986, 33, 1429-1432.	2.5	12
52	Landau theory of the helicoidal phase in smectic liquid crystals: Re-entrance of the smectic-C phase and order of the smectic-C to smectic-C transition. <i>Physical Review A</i> , 1989, 39, 3622-3630.	2.5	12
53	Global migration topology analysis and modeling of bilateral flow network 2006-2010. <i>Europhysics Letters</i> , 2016, 115, 18002.	2.0	12
54	Etude quantitative de l'énergie libre de PbZrO ₃ pur et dopé avec Nb ₂ O ₅ . <i>Canadian Journal of Physics</i> , 1969, 47, 2439-2443.	1.1	11

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55	SCALING AND URBAN GROWTH. International Journal of Modern Physics C, 2004, 15, 989-996.	1.7	11
56	Critical point of infinite type. Physical Review B, 1977, 16, 1266-1269.	3.2	10
57	Behavior of electric susceptibility and electroclinic coefficient near the chiral smectic A^*C transition. Physical Review A, 1978, 18, 2736-2738.	2.5	10
58	Ferroelectric losses in BaTiO ₃ produced the 90° domain walls. Ferroelectrics, 1974, 7, 315-317.	0.6	9
59	Wet dielectric separation. Powder Technology, 1977, 17, 95-100.	4.2	9
60	Title is missing!. Journal Physics D: Applied Physics, 1986, 19, 1853-1861.	2.8	9
61	Optics of chiral smectic liquid crystals near their Lifshitz point. Physical Review A, 1990, 42, 2114-2125.	2.5	9
62	Aggregation models for town growth. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 1998, 77, 1269-1275.	0.6	9
63	A new interpretation of the critical behavior in NH ₄ Cl and ND ₄ Cl. Solid State Communications, 1976, 20, 173-174.	1.9	8
64	Benguigui Responds. Physical Review Letters, 1985, 54, 1464-1464.	7.8	8
65	A model of the reentrant phase transition of a smectic C [*] liquid crystal under magnetic field. Ferroelectrics, 1988, 84, 379-388.	0.6	8
66	X-ray diffraction evidence for a ferroelectric phase transition in zinc cadmium telluride. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 1991, 9, 217-219.	3.5	8
67	Measurement of birefringence in ZnCdTe. Ferroelectrics, 1992, 125, 57-62.	0.6	7
68	Some speculations on fractals and railway networks. Physica A: Statistical Mechanics and Its Applications, 1992, 191, 75-78.	2.6	7
69	Comparison Between the Elasticity of Polyacrylamide and Polyacrylic Gels. Journal De Physique II, 1995, 5, 437-443.	0.9	6
70	Fracture of polymer gels. Physica A: Statistical Mechanics and Its Applications, 1999, 270, 1-7.	2.6	6
71	Some remarks about antiferroelectric phase transitions. Physics Letters, Section A: General, Atomic and Solid State Physics, 1970, 33, 79-80.	2.1	5
72	A new tricritical point in Co doped barium titanate. Ferroelectrics, 1980, 25, 633-635.	0.6	5

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73	The Nature of the Smectic A-Smectic C Transition. <i>Molecular Crystals and Liquid Crystals</i> , 1997, 301, 355-361.	0.3	5
74	Continuite des constantes d'electrostriction des solutions ternaires Pb (ZrxSnyTiz)O3 lors d'un changement de phase antiferro-ferroelectrique. <i>Solid State Communications</i> , 1969, 7, 173-175.	1.9	3
75	Comment on the Antiferromagnetic-Paramagnetic Phase Transition in Nonzero Field. <i>Physical Review B</i> , 1973, 8, 412-413.	3.2	3
76	Benguigui Responds:. <i>Physical Review Letters</i> , 1986, 57, 1190-1190.	7.8	3
77	Dielectrophoresis in two dimensions. <i>Journal of Electrostatics</i> , 1988, 21, 205-213.	1.9	3
78	Critical angles for light propagation in the chiral smectic liquid crystals. <i>Ferroelectrics</i> , 1988, 84, 273-282.	0.6	3
79	Elastic constants at the smectic A-crytalline smectic B phase transition of the compound 50.8. <i>Liquid Crystals</i> , 1991, 9, 741-750.	2.2	3
80	Relationships between centrality measures of networks with diameter 2. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2018, 505, 243-251.	2.6	3
81	Ultrasound Studies of the Polymer Liquid Crystal P41. <i>Molecular Crystals and Liquid Crystals Incorporating Nonlinear Optics</i> , 1987, 153, 241-247.	0.3	2
82	Influence of ferroelectricity on the electrical properties of Cd _{1-x} Zn _x Te solid solutions. <i>Solid State Communications</i> , 1996, 99, 619-622.	1.9	2
83	Phase transitions in superionics as an example of a modified Pott's model. <i>Zeitschrift für Physik B Condensed Matter and Quanta</i> , 1981, 42, 113-117.	1.9	1
84	Elasticity of Percolative Systems. <i>Springer Proceedings in Physics</i> , 1985, , 188-192.	0.2	1
85	Aggregation models for town growth. <i>The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties</i> , 1998, 77, 1269-1275.	0.6	1
86	Critical point of infinite type in one dimension. <i>Journal of Physics A</i> , 1978, 11, 2369-2373.	1.6	0
87	ON THE BEHAVIOR OF SUSPENSIONS IN STRONG NONUNIFORM ELECTRIC FIELDS (DIELECTROPHORETIC) $T_j ETQq_1 1 0.784314 rgBT$	3.8	0
88	COMPUTER SIMULATIONS IN URBAN GEOGRAPHY. , 2000, , 125-149.		0