

F Brouers

List of Publications by Year in descending order

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73
papers

3,144
citations

159585

30
h-index

149698

56
g-index

74
all docs

74
docs citations

74
times ranked

1980
citing authors

#	ARTICLE	IF	CITATIONS
1	Design of Electrical Composites: Determining the Role of the Morphology on the Electrical Properties of Carbon Black Filled Polymer Blends. <i>Macromolecules</i> , 1995, 28, 1559-1566.	4.8	459
2	Kinetic and Thermodynamic Control of the Selective Localization of Carbon Black at the Interface of Immiscible Polymer Blends. <i>Chemistry of Materials</i> , 1998, 10, 1227-1235.	6.7	263
3	Interpretation of mercury porosimetry applied to aerogels. <i>Journal of Materials Research</i> , 1995, 10, 2114-2119.	2.6	142
4	Generalized fractal kinetics in complex systems (application to biophysics and biotechnology). <i>Physica A: Statistical Mechanics and Its Applications</i> , 2006, 368, 165-175.	2.6	127
5	Electrical and dielectric properties of carbon black filled co-continuous two-phase polymer blends. <i>Journal Physics D: Applied Physics</i> , 1999, 32, 1517-1525.	2.8	117
6	On the optimal use of isotherm models for the characterization of biosorption of lead onto algae. <i>Journal of Molecular Liquids</i> , 2015, 212, 46-51.	4.9	116
7	Microporous and heterogeneous surface adsorption isotherms arising from Levy distributions. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2005, 349, 271-282.	2.6	102
8	Bethe-Peierls Approximation in the Electronic Theory of Disordered Materials. <i>Physical Review B</i> , 1973, 7, 4370-4373.	3.2	98
9	Adsorption studies of molasse's wastewaters on activated carbon: Modelling with a new fractal kinetic equation and evaluation of kinetic models. <i>Journal of Hazardous Materials</i> , 2009, 161, 649-656.	12.4	98
10	Theory of Electrical Conductivity in Disordered Binary Alloys. The Effect of s-d Hybridization. <i>Physical Review B</i> , 1972, 5, 348-360.	3.2	89
11	Theory of giant Raman scattering from semicontinuous metal films. <i>Physical Review B</i> , 1997, 55, 13234-13245.	3.2	88
12	Comparison of the Average-t-Matrix and Coherent-Potential Approximations in Substitutional Alloys. <i>Physical Review B</i> , 1971, 4, 3383-3392.	3.2	77
13	Percolation threshold and conductivity in metal-insulator composite mean-field theories. <i>Journal of Physics C: Solid State Physics</i> , 1986, 19, 7183-7193.	1.5	71
14	Modelling single compound adsorption onto porous and non-porous sorbents using a deformed Weibull exponential isotherm. <i>Chemical Engineering Journal</i> , 2008, 145, 196-202.	12.7	68
15	Dielectric and optical properties close to the percolation threshold. II. <i>Physical Review B</i> , 1993, 47, 666-673.	3.2	62
16	New Scaling for ac Properties of Percolating Composite Materials. <i>Physical Review Letters</i> , 1994, 73, 2895-2898.	7.8	59
17	Local environment effects on the electronic structure of disordered alloys. <i>Journal of Physics F: Metal Physics</i> , 1973, 3, 2120-2125.	1.6	56
18	Freeze-dried resorcinol-formaldehyde gels. <i>Journal of Non-Crystalline Solids</i> , 1997, 212, 250-261.	3.1	54

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19	Dielectric and optical properties close to the percolation threshold. <i>Physical Review B</i> , 1991, 44, 5299-5302.	3.2	53
20	The Fractal (BSf) Kinetics Equation and Its Approximations. <i>Journal of Modern Physics</i> , 2014, 05, 1594-1601.	0.6	47
21	Theory of binary alloys of different constituent bandwidths. <i>Journal of Physics F: Metal Physics</i> , 1972, 2, 1070-1091.	1.6	46
22	Energy of formation, band structure and local environment effects in transitional binary alloys. <i>Journal of Physics F: Metal Physics</i> , 1975, 5, 1884-1894.	1.6	46
23	Order-disorder transition in a model binary alloy. <i>Journal of Physics F: Metal Physics</i> , 1974, 4, 214-224.	1.6	45
24	Charge transfer and ordering energy in a model binary alloy. <i>Journal of Physics F: Metal Physics</i> , 1976, 6, 1281-1296.	1.6	45
25	Residual Resistivity of Concentrated Ferromagnetic Disordered Alloys. <i>Physical Review B</i> , 1973, 7, 380-391.	3.2	44
26	Local environment and magnetic properties in transitional binary alloys. II. (numerical results). <i>Journal of Physics F: Metal Physics</i> , 1975, 5, 995-1013.	1.6	41
27	Sorption dynamic investigation of chromium(VI) onto <i>Posidonia oceanica</i> fibres: Kinetic modelling using new generalized fractal equation. <i>Biochemical Engineering Journal</i> , 2009, 46, 141-146.	3.6	39
28	Theory of metal-non-metal transitions in liquid-metal alloys. <i>Journal of Physics F: Metal Physics</i> , 1980, 10, 235-252.	1.6	36
29	Parameters from a new kinetic equation to evaluate activated carbons efficiency for water treatment. <i>Water Research</i> , 2006, 40, 3467-3477.	11.3	34
30	Kinetic Modeling Study on Methylene Blue Sorption onto <i>Agave americana</i> fibers: Fractal Kinetics and Regeneration Studies. <i>Separation Science and Technology</i> , 2013, 48, 2834-2842.	2.5	34
31	On the temperature dependence of electrical resistivity in concentrated disordered transition binary alloys. <i>Journal De Physique (Paris), Lettres</i> , 1975, 36, 17-21.	2.8	27
32	On the theories of local environment effect in disordered alloys. <i>Journal of Physics F: Metal Physics</i> , 1975, 5, 45-55.	1.6	26
33	Ionic-metallic transition in gold-based liquid alkali metal alloys. <i>Journal of Physics F: Metal Physics</i> , 1981, 11, 1047-1053.	1.6	26
34	Giant field fluctuations and anomalous light scattering from semicontinuous metal films. <i>Physical Review B</i> , 1998, 58, 15897-15903.	3.2	26
35	Theory of ferroelectric polymer-ceramic composites. <i>Journal of Applied Physics</i> , 1990, 68, 713-718.	2.5	25
36	Percolation and anomalous conduction on fractals in fluid-saturated porous media. <i>Journal of Physics C: Solid State Physics</i> , 1988, 21, 1839-1847.	1.5	23

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37	Morphological analysis of discontinuous thin films on various substrates. Journal of Applied Physics, 1993, 74, 207-213.	2.5	23
38	Relaxation in heterogeneous systems: A rare events dominated phenomenon. Physica A: Statistical Mechanics and Its Applications, 2005, 356, 359-374.	2.6	22
39	A dielectric anomaly in electrolyte-saturated porous alumina ceramics. Journal of Materials Science, 1987, 22, 2759-2766.	3.7	21
40	Burr, LÃ©vy, Tsallis. Physica A: Statistical Mechanics and Its Applications, 2004, 344, 409-416.	2.6	20
41	The density of states of the Anderson model of cellular disorder in the coherent potential approximation. Journal of Physics C: Solid State Physics, 1971, 4, 773-782.	1.5	19
42	On the Texture Characterization of Mixed SiO ₂ ~ZrO ₂ Aerogels Using the Nitrogen Adsorption~Desorption Isotherms:~ Classical and Fractal Methods. Langmuir, 1997, 13, 1145-1149.	3.5	19
43	Self-similar properties of the far-infrared and optical absorption of fractal metallic clusters. Physical Review B, 1994, 49, 14582-14588.	3.2	18
44	Quantum statistical theory of giant magnetoresistance in magnetic heterogeneous alloys. Journal of Magnetism and Magnetic Materials, 1996, 164, 91-98.	2.3	18
45	Electrical conductivity of a two s-d band alloy model: effect of off-diagonal disorder. Journal of Physics F: Metal Physics, 1976, 6, 209-219.	1.6	16
46	Universal relaxation in nonextensive systems. Europhysics Letters, 2003, 62, 808-814.	2.0	16
47	Electron~Phonon Interaction in Mixed Valence Systems. Physica Status Solidi (B): Basic Research, 1981, 104, 541-546.	1.5	14
48	Effect of disorder on the optical properties of Au, Ag and AuAg _{1-x} . Journal of Physics F: Metal Physics, 1974, 4, 928-937.	1.6	13
49	Temperature and strain effect on electrical resistivity of transition metal alloys: application to strain gauges. Journal of Physics F: Metal Physics, 1976, 6, 1331-1339.	1.6	11
50	Dielectric and conductivity properties of inhomogeneous media. Physica A: Statistical Mechanics and Its Applications, 1989, 157, 454-460.	2.6	10
51	Influence of long range order on electrical resistivity in alloys. Solid State Communications, 1975, 17, 229-232.	1.9	9
52	Hall effect in concentrated alloys. Physical Review B, 1976, 13, 5214-5224.	3.2	8
53	Relation between Morphology and Alternating Current Electrical Properties of Granular Metallic Films Close to Percolation Threshold. Langmuir, 1996, 12, 183-188.	3.5	8
54	On the homomorphic cluster CPA. Solid State Communications, 1981, 38, 1139-1141.	1.9	7

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55	Cluster plasmon resonances close to the percolation threshold: simulation versus EMA. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1994, 207, 100-105.	2.6	7
56	The use of the Brouersâ€“Sotolongo fractal kinetic equation for the study of drug release. <i>Adsorption</i> , 2020, 26, 843-853.	3.0	7
57	Theory of electrical conductivity in disordered binary alloys; discussion of the validity of CPA. <i>Journal of Physics F: Metal Physics</i> , 1973, 3, 127-135.	1.6	6
58	Optical Relaxation Time and Effective Mass in Noble Metal Alloys. <i>Physica Status Solidi (B): Basic Research</i> , 1976, 75, 519-525.	1.5	6
59	Scaling law for the low-frequency a.c. conductivity of fluid-saturated porous media. <i>Philosophical Magazine Letters</i> , 1987, 55, 301-304.	1.2	6
60	Short-Range Order and Superconductivity in Binary Alloys Containing V, Nb, and Ta. <i>Physica Status Solidi (B): Basic Research</i> , 1987, 139, 565-571.	1.5	6
61	Density of states in ferromagnetic NiCu alloys. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1972, 40, 77-78.	2.1	5
62	On the dielectric anomaly and clustering effects in dense mercury vapour. <i>The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties</i> , 1985, 51, L21-L26.	0.6	4
63	Local moments in the Hubbard model. <i>Journal of Physics C: Solid State Physics</i> , 1982, 15, 3181-3193.	1.5	3
64	Levy's distributions of local fields intensities in metal-dielectric systems. <i>Physica B: Condensed Matter</i> , 2000, 279, 56-58.	2.7	3
65	Temperature dependence of electrical resistivity in highly resistive alloys. <i>Journal De Physique (Paris), Lettres</i> , 1978, 39, 323-326.	2.8	3
66	Effect of spin-fluctuations on the temperature dependence of electrical resistivity in transition alloys. <i>Solid State Communications</i> , 1978, 25, 785-787.	1.9	2
67	Modelisation of electrical intergrain contacts at high frequencies. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1997, 241, 289-295.	2.6	2
68	Scaling of Complex Conductivity for A Percolating Metal-Insulator Composite with Inter granular Tunneling Above and Below the Superconducting Transition. <i>Materials Research Society Symposia Proceedings</i> , 1995, 411, 333.	0.1	1
69	AC Properties of Carbon Black Filled Polymer Blends. <i>Materials Research Society Symposia Proceedings</i> , 1995, 411, 339.	0.1	1
70	New Scaling for AC Properties of Percolating Composite Materials. <i>Materials Research Society Symposia Proceedings</i> , 1994, 367, 231.	0.1	0
71	Non Universal Scaling Law Exponents in the AC Dielectric Response of Polymer-Carbon Black Composites. <i>Materials Research Society Symposia Proceedings</i> , 1994, 367, 423.	0.1	0
72	Chaos generated noise in radio frequency SQUID magnetometers. <i>AIP Conference Proceedings</i> , 1996, , .	0.4	0

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73	Percolation and Dispersive Conduction in Fluid-Saturated Porous Media. Springer Proceedings in Physics, 1988, , 43-51.	0.2	0