

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	The use of the Brouers's Sotolongo fractal kinetic equation for the study of drug release. Adsorption, 2020, 26, 843-853.	3.0	7
2	On the optimal use of isotherm models for the characterization of biosorption of lead onto algae. Journal of Molecular Liquids, 2015, 212, 46-51.	4.9	116
3	The Fractal (BSf) Kinetics Equation and Its Approximations. Journal of Modern Physics, 2014, 05, 1594-1601.	0.6	47
4	Kinetic Modeling Study on Methylene Blue Sorption onto Agave americana fibers: Fractal Kinetics and Regeneration Studies. Separation Science and Technology, 2013, 48, 2834-2842.	2.5	34
5	Adsorption studies of molasse's wastewaters on activated carbon: Modelling with a new fractal kinetic equation and evaluation of kinetic models. Journal of Hazardous Materials, 2009, 161, 649-656.	12.4	98
6	Sorption dynamic investigation of chromium(VI) onto Posidonia oceanica fibres: Kinetic modelling using new generalized fractal equation. Biochemical Engineering Journal, 2009, 46, 141-146.	3.6	39
7	Modelling single compound adsorption onto porous and non-porous sorbents using a deformed Weibull exponential isotherm. Chemical Engineering Journal, 2008, 145, 196-202.	12.7	68
8	Parameters from a new kinetic equation to evaluate activated carbons efficiency for water treatment. Water Research, 2006, 40, 3467-3477.	11.3	34
9	Generalized fractal kinetics in complex systems (application to biophysics and biotechnology). Physica A: Statistical Mechanics and Its Applications, 2006, 368, 165-175.	2.6	127
10	Microporous and heterogeneous surface adsorption isotherms arising from Levy distributions. Physica A: Statistical Mechanics and Its Applications, 2005, 349, 271-282.	2.6	102
11	Relaxation in heterogeneous systems: A rare events dominated phenomenon. Physica A: Statistical Mechanics and Its Applications, 2005, 356, 359-374.	2.6	22
12	Burr, LÃ©vy, Tsallis. Physica A: Statistical Mechanics and Its Applications, 2004, 344, 409-416.	2.6	20
13	Universal relaxation in nonextensive systems. Europhysics Letters, 2003, 62, 808-814.	2.0	16
14	Levy's distributions of local fields intensities in metal-dielectric systems. Physica B: Condensed Matter, 2000, 279, 56-58.	2.7	3
15	Electrical and dielectric properties of carbon black filled co-continuous two-phase polymer blends. Journal Physics D: Applied Physics, 1999, 32, 1517-1525.	2.8	117
16	Kinetic and Thermodynamic Control of the Selective Localization of Carbon Black at the Interface of Immiscible Polymer Blends. Chemistry of Materials, 1998, 10, 1227-1235.	6.7	263
17	Giant field fluctuations and anomalous light scattering from semicontinuous metal films. Physical Review B, 1998, 58, 15897-15903.	3.2	26
18	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

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19	Freeze-dried resorcinol-formaldehyde gels. <i>Journal of Non-Crystalline Solids</i> , 1997, 212, 250-261.	3.1	54
20	Theory of giant Raman scattering from semicontinuous metal films. <i>Physical Review B</i> , 1997, 55, 13234-13245.	3.2	88
21	Modelisation of electrical intergrain contacts at high frequencies. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1997, 241, 289-295.	2.6	2
22	Relation between Morphology and Alternating Current Electrical Properties of Granular Metallic Films Close to Percolation Threshold. <i>Langmuir</i> , 1996, 12, 183-188.	3.5	8
23	Chaos generated noise in radio frequency SQUID magnetometers. <i>AIP Conference Proceedings</i> , 1996, , .	0.4	0
24	Quantum statistical theory of giant magnetoresistance in magnetic heterogeneous alloys. <i>Journal of Magnetism and Magnetic Materials</i> , 1996, 164, 91-98.	2.3	18
25	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
26	AC Properties of Carbon Black Filled Polymer Blends. <i>Materials Research Society Symposia Proceedings</i> , 1995, 411, 339.	0.1	1
27	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
28	Interpretation of mercury porosimetry applied to aerogels. <i>Journal of Materials Research</i> , 1995, 10, 2114-2119.	2.6	142
29	Self-similar properties of the far-infrared and optical absorption of fractal metallic clusters. <i>Physical Review B</i> , 1994, 49, 14582-14588.	3.2	18
30	New Scaling for ac Properties of Percolating Composite Materials. <i>Physical Review Letters</i> , 1994, 73, 2895-2898.	7.8	59
31	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
32	New Scaling for AC Properties of Percolating Composite Materials. <i>Materials Research Society Symposia Proceedings</i> , 1994, 367, 231.	0.1	0
33	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
34	Dielectric and optical properties close to the percolation threshold. II. <i>Physical Review B</i> , 1993, 47, 666-673.	3.2	62
35	Morphological analysis of discontinuous thin films on various substrates. <i>Journal of Applied Physics</i> , 1993, 74, 207-213.	2.5	23
36	Dielectric and optical properties close to the percolation threshold. <i>Physical Review B</i> , 1991, 44, 5299-5302.	3.2	53

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37	Theory of ferroelectric polymer-ceramic composites. <i>Journal of Applied Physics</i> , 1990, 68, 713-718.	2.5	25
38	Dielectric and conductivity properties of inhomogeneous media. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1989, 157, 454-460.	2.6	10
39	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
40	Percolation and Dispersive Conduction in Fluid-Saturated Porous Media. <i>Springer Proceedings in Physics</i> , 1988, , 43-51.	0.2	0
41	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
42	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
43	A dielectric anomaly in electrolyte-saturated porous alumina ceramics. <i>Journal of Materials Science</i> , 1987, 22, 2759-2766.	3.7	21
44	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
45	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
46	Local moments in the Hubbard model. <i>Journal of Physics C: Solid State Physics</i> , 1982, 15, 3181-3193.	1.5	3
47	Electron-Phonon Interaction in Mixed Valence Systems. <i>Physica Status Solidi (B): Basic Research</i> , 1981, 104, 541-546.	1.5	14
48	On the homomorphic cluster CPA. <i>Solid State Communications</i> , 1981, 38, 1139-1141.	1.9	7
49	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
50	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
51	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
52	Temperature dependence of electrical resistivity in highly resistive alloys. <i>Journal De Physique (Paris), Lettres</i> , 1978, 39, 323-326.	2.8	3
53	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
54	Temperature and strain effect on electrical resistivity of transition metal alloys: application to strain gauges. <i>Journal of Physics F: Metal Physics</i> , 1976, 6, 1331-1339.	1.6	11

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55	Hall effect in concentrated alloys. <i>Physical Review B</i> , 1976, 13, 5214-5224.	3.2	8
56	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
57	Electrical conductivity of a two s-d band alloy model: effect of off-diagonal disorder. <i>Journal of Physics F: Metal Physics</i> , 1976, 6, 209-219.	1.6	16
58	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
59	Influence of long range order on electrical resistivity in alloys. <i>Solid State Communications</i> , 1975, 17, 229-232.	1.9	9
60	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
61	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
62	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
63	Effect of disorder on the optical properties of Au, Ag and AuAg _{1-x} . <i>Journal of Physics F: Metal Physics</i> , 1974, 4, 928-937.	1.6	13
64	Order-disorder transition in a model binary alloy. <i>Journal of Physics F: Metal Physics</i> , 1974, 4, 214-224.	1.6	45
65	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
66	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
67	Bethe-Peierls Approximation in the Electronic Theory of Disordered Materials. <i>Physical Review B</i> , 1973, 7, 4370-4373.	3.2	98
68	Residual Resistivity of Concentrated Ferromagnetic Disordered Alloys. <i>Physical Review B</i> , 1973, 7, 380-391.	3.2	44
69	Theory of binary alloys of different constituent bandwidths. <i>Journal of Physics F: Metal Physics</i> , 1972, 2, 1070-1091.	1.6	46
70	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
71	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
72	The density of states of the Anderson model of cellular disorder in the coherent potential approximation. <i>Journal of Physics C: Solid State Physics</i> , 1971, 4, 773-782.	1.5	19

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73	Comparison of the Average-t-Matrix and Coherent-Potential Approximations in Substitutional Alloys. Physical Review B, 1971, 4, 3383-3392.	3.2	77