## **Enrique Louis**

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	The metal-semiconductor interface: Si (111) and zincblende (110) junctions. Journal of Physics C: Solid State Physics, 1977, 10, 2163-2177.	1.5	268
2	Effective two-dimensional Hamiltonian at surfaces. Physical Review B, 1983, 28, 4397-4402.	1.1	260
3	Pressure infiltration of packed ceramic particulates by liquid metals. Acta Materialia, 1999, 47, 4461-4479.	3.8	174
4	First-Principles Phase-Coherent Transport in Metallic Nanotubes with Realistic Contacts. Physical Review Letters, 2003, 90, 106801.	2.9	159
5	Capacitance spectroscopy in quantum dots: Addition spectra and decrease of tunneling rates. Physical Review B, 1994, 50, 5760-5763.	1.1	147
6	The Fractal Nature of Fracture. Europhysics Letters, 1987, 3, 871-877.	0.7	144
7	Thermal conductivity of Al–SiC composites with monomodal and bimodal particle size distribution. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2008, 480, 483-488.	2.6	144
8	Fabrication and properties of graphite flakes/metal composites for thermal management applications. Scripta Materialia, 2008, 59, 11-14.	2.6	144
9	Thermal expansion behaviour of aluminium/SiC composites with bimodal particle distributions. Acta Materialia, 2003, 51, 3145-3156.	3.8	134
10	Holes and magnetic textures in the two-dimensional Hubbard model. Physical Review B, 1991, 43, 6099-6108.	1.1	129
11	Abrasive wear resistance of aluminium alloy/ceramic particulate composites. Wear, 1996, 192, 170-177.	1.5	122
12	Thermal conductivity of graphite flakes–SiC particles/metal composites. Composites Part A: Applied Science and Manufacturing, 2011, 42, 1970-1977.	3.8	108
13	Pressure infiltration of liquid aluminium into packed SiC particulate with a bimodal size distribution. Acta Materialia, 2002, 50, 247-257.	3.8	105
14	The effect of porosity on the thermal conductivity of Al–12wt.% Si/SiC composites. Scripta Materialia, 2009, 60, 582-585.	2.6	96
15	The surface tension of liquid aluminium in high vacuum: The role of surface condition. International Journal of Adhesion and Adhesives, 2007, 27, 394-401.	1.4	94
16	Evaluation of the wettability of liquid aluminum with ceramic particulates (SiC, TiC, Al2O3) by means of pressure infiltration. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 1993, 24, 1423-1432.	1.1	88
17	Optimizing thermal conductivity in gas-pressure infiltrated aluminum/diamond composites by precise processing control. Composites Part A: Applied Science and Manufacturing, 2013, 48, 9-14.	3.8	87
18	Metal-semiconductor junction for (110) surfaces of zinc-blende compounds. Physical Review B, 1976, 13, 4408-4418.	1.1	85

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19	Pressure infiltration of Al–12wt.% Si–X (X=Cu, Ti, Mg) alloys into graphite particle preforms. Acta Materialia, 2006, 54, 1821-1831.	3.8	78
20	Increasing Lubricant Film Lifetime by Grooving Periodical Patterns Using Laser Interference Metallurgy. Advanced Engineering Materials, 2008, 10, 554-558.	1.6	71
21	Reactivity of thermally oxidized and unoxidized SiC particulates with aluminium-silicon alloys. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 1992, 15, 148-155.	1.7	66
22	The measurement of surface tension of liquid aluminium by means of the maximum bubble pressure method: The effect of surface oxidation. Scripta Metallurgica, 1984, 18, 869-872.	1.2	57
23	Liquid metal infiltration into ceramic particle preforms with bimodal size distributions. Current Opinion in Solid State and Materials Science, 2005, 9, 202-210.	5.6	56
24	Are neurons multifractals?. Journal of Neuroscience Methods, 1999, 89, 151-157.	1.3	52
25	Surface tension of binary and ternary aluminium alloys of the systems Al-Si-Mg and Al-Zn-Mg. Journal of Materials Science, 1992, 27, 5247-5252.	1.7	50
26	Transport regimes in surface disordered graphene sheets. Physical Review B, 2007, 75, .	1.1	46
27	Aluminum/diamond composites: A preparative method to characterize reactivity and selectivity at the interface. Scripta Materialia, 2012, 66, 789-792.	2.6	46
28	Model of Quantum Chaotic Billiards: Spectral Statistics and Wave Functions in Two Dimensions. Physical Review Letters, 1996, 77, 1970-1973.	2.9	43
29	Interpolative solution for the periodic Anderson model of mixed-valence compounds. Physical Review B, 1986, 33, 1814-1822.	1.1	41
30	Are Electron Affinity and Ionization Potential Intrinsic Parameters to Predict the Electron or Hole Acceptor Character of Amorphous Molecular Materials?. Journal of Physical Chemistry Letters, 2017, 8, 2445-2449.	2.1	40
31	Holes and Magnetic Textures in the Two-Dimensional Hubbard Model. Europhysics Letters, 1991, 14, 157-163.	0.7	39
32	Wettability of binary and ternary alloys of the system Al-Si-Mg with SiC particulates. Scripta Metallurgica Et Materialia, 1994, 31, 1495-1500.	1.0	37
33	Fabrication of mesophase pitch-derived open-pore carbon foams by replication processing. Carbon, 2012, 50, 1904-1912.	5.4	35
34	Porosity Effect on Thermal Properties of Al-12 wt % Si/Graphite Composites. Materials, 2017, 10, 177.	1.3	35
35	Pseudopotential calculation of the surface band structure of Si(111) faces. Journal of Physics C: Solid State Physics, 1974, 7, 3020-3032.	1.5	34
36	Infiltration of graphite preforms with Al–Si eutectic alloy and mercury. Scripta Materialia, 2007, 56, 991-994.	2.6	33

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37	Asymmetry between Absorption and Photoluminescence Line Shapes of TPD: Spectroscopic Fingerprint of the Twisted Biphenyl Core. Journal of Physical Chemistry A, 2009, 113, 315-324.	1.1	33
38	Electron states at planar and stepped semiconductor surfaces. Physical Review B, 1977, 16, 1542-1551.	1.1	32
39	Surface modification of 2014 aluminium alloy–Al2O3 particles composites by nickel electrochemical deposition. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2004, 383, 299-306.	2.6	32
40	Effects of infiltration pressure on mechanical properties of Al–12Si/graphite composites for piston engines. Composites Part B: Engineering, 2016, 91, 441-447.	5.9	32
41	Factors affecting pressure infiltration of packed SiC particulates by liquid aluminum. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 1995, 26, 983-990.	1.1	31
42	Electronic transport through C60molecules. Nanotechnology, 2001, 12, 160-163.	1.3	31
43	Analysis of Scanning Tunneling Spectroscopy Experiments from First Principles: The Test Case of C60 Adsorbed on Au(111). ChemPhysChem, 2003, 4, 388-392.	1.0	31
44	Electron states on the (111) surface of copper. Solid State Communications, 1977, 22, 663-666.	0.9	30
45	Fracture as a growth process. Physica D: Nonlinear Phenomena, 1989, 38, 235-241.	1.3	30
46	Smoothness Implies Determinism in Time Series: A Measure Based Approach. Physical Review Letters, 1998, 81, 4345-4348.	2.9	30
47	Role of Al4C3 on the stability of the thermal conductivity of Al/diamond composites subjected to constant or oscillating temperature in a humid environment. Journal of Materials Science, 2016, 51, 8027-8036.	1.7	29
48	Many-body effects in the (111)-silicon dangling-bond surface states. Solid State Communications, 1982, 44, 1633-1636.	0.9	27
49	Unrestricted Hartree-Fock study of the two-band Hamiltonian in dopedCuO2planes. Physical Review B, 1992, 46, 3562-3572.	1.1	26
50	Monte Carlo simulation of CO adlayers electrooxidation on Pt(111). Surface Science, 1998, 416, 371-383.	0.8	26
51	Effects of temperature on pressure infiltration of liquid Al and Al–12wt.%Si alloy into packed SiC particles. Scripta Materialia, 2005, 53, 1483-1488.	2.6	26
52	Growth and forms of Laplacian aggregates. Physical Review E, 1993, 48, 1296-1304.	0.8	25
53	Fit of Pariser-Parr-Pople and Hubbard model Hamiltonians to charge and spin states of polycyclic aromatic hydrocarbons. Physical Review B, 2010, 81, .	1.1	25
54	On critical aspects of infiltrated Al/diamond composites for thermal management: Diamond quality versus processing conditions. Composites Part A: Applied Science and Manufacturing, 2014, 67, 70-76.	3.8	25

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55	Anisotropy in thermal conductivity of graphite flakes–SiCp/matrix composites: Implications in heat sinking design for thermal management applications. Materials Characterization, 2015, 109, 107-115.	1.9	25
56	Percolation in Isotropic Elastic Media. Physical Review Letters, 1988, 60, 124-127.	2.9	24
57	Threshold pressure for infiltration and particle specific surface area of particle compacts with bimodal size distributions. Scripta Materialia, 2004, 51, 623-627.	2.6	24
58	A differential scanning calorimetry investigation of the effects of zinc and copper on solid state reactions in Alî—,Znî—,Mgî—,Cu alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1991, 132, 135-141.	2.6	23
59	Herringbone Pattern and CH–π Bonding in the Crystal Architecture of Linear Polycyclic Aromatic Hydrocarbons. ChemPhysChem, 2016, 17, 3548-3557.	1.0	23
60	Self-similar magnetoconductance fluctuations in quantum dots. Physical Review B, 2000, 61, 13014-13020.	1.1	22
61	Pseudopotential calculation of the surface band structure of (111) diamond and zinc-blende faces: Ge,αâ~'Sn, GaAs, and ZnS. Physical Review B, 1975, 12, 618-623.	1.1	21
62	Nature of star-shaped clusters of FeAl <sub>3</sub> in aluminium–iron alloys. Metal Science, 1980, 14, 591-594.	0.7	21
63	Interfacial nano-engineering in Al/diamond composites for thermal management by in situ diamond surface gas desorption. Scripta Materialia, 2016, 115, 159-163.	2.6	21
64	Electrostatic edge modes of a hyperbolic dielectric wedge: Analytical solution. Physical Review B, 1985, 32, 6045-6047.	1.1	20
65	Crossover between different growth regimes in crack formation. Physical Review A, 1990, 42, 3670-3673.	1.0	20
66	A differential scanning calorimetry study of solid state reactions in AA6061î—,SiC, AA6061î—,Al2O3 and A357î—,SiC composites fabricated by means of compocasting. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1994, 189, 219-227.	2.6	20
67	Title is missing!. Journal of Materials Science Letters, 2002, 21, 309-311.	0.5	20
68	Configuration-interaction approach to hole pairing in the two-dimensional Hubbard model. Physical Review B, 1999, 59, 14005-14016.	1.1	19
69	Reactivity and thermal behaviour of Cu–Si/SiC composites: effects of SiC oxidation. Materials Science and Technology, 2006, 22, 1464-1468.	0.8	19
70	Wetting and capillarity in the Sn/graphite system. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2008, 495, 187-191.	2.6	19
71	One-electron properties of the metal-semiconductor junction for zincblende compounds. Journal of Physics C: Solid State Physics, 1973, 6, L465-L469.	1.5	18
72	The charge neutrality point in covalent semiconductor surfaces. Solid State Communications, 1974, 15, 587-589.	0.9	18

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73	Conditioned spikes: a simple and fast method to represent rates and temporal patterns in multielectrode recordings. Journal of Neuroscience Methods, 2004, 133, 135-141.	1.3	18
74	Pore filling in graphite particle compacts infiltrated with Al–12wt.%Si and Al–12wt.%Si–1wt.%Cu alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2008, 495, 276-281.	2.6	18
75	Electronic structure of the Geî—,GaAs (111) and () heterojunctions. Solid State Communications, 1977, 24, 849-852.	0.9	17
76	Random Bethe lattice approach to the mobility edges of hydrogenated and flourinated amorphous silicon. Solid State Communications, 1986, 60, 157-160.	0.9	17
77	Critique of the abrupt potential model in the theory of surface states. Journal of Physics C: Solid State Physics, 1972, 5, 3469-3472.	1.5	16
78	Surface states and ionicity. Physica Status Solidi (B): Basic Research, 1973, 57, 175-186.	0.7	16
79	Displaced abrupt barrier and self-consistency of dangling-bond surface states. Journal of Physics C: Solid State Physics, 1976, 9, L429-L432.	1.5	16
80	Quasiparticle spectral density of low-dimensional Hubbard Hamiltonians. Physical Review B, 1984, 29, 476-478.	1.1	16
81	Possibility of finding reliable solid-state tight-binding parameters for the Si-N bond through quantum-chemistry calculations. Physical Review B, 1989, 39, 1844-1855.	1.1	16
82	Microstructure and susceptibility to stress corrosion cracking of Alî—,Znî—,Mg weldments (AA-7017). Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1994, 174, 173-186.	2.6	16
83	Pattern formation in screened electrostatic fields. Physical Review Letters, 1992, 68, 209-212.	2.9	15
84	Interfacial reactions in Al/TiC particulate composites produced by pressure infiltration. Materials Science and Technology, 2003, 19, 1225-1230.	0.8	15
85	Excitations and response functions of the doped two-dimensional Hubbard model: A random-phase-approximation anaylsis. Physical Review B, 1992, 45, 4752-4758.	1.1	14
86	Mean free path and energy fluctuations in quantum chaotic billiards. Physical Review B, 1997, 56, 2120-2126.	1.1	14
87	Pressure infiltration of packed Al2O3 particulates by pure silver. Scripta Materialia, 1997, 36, 363-368.	2.6	14
88	Numerical simulation of the voltammetric electrooxidation of CO adsorbed on Pt(111). Electrochimica Acta, 1998, 44, 1221-1227.	2.6	14
89	Magnetic molecules created by hydrogenation of polycyclic aromatic hydrocarbons. Physical Review B, 2009, 79, .	1.1	14
90	Electronic structure of H chemisorbed on Si(111) surfaces. Solid State Communications, 1978, 25, 439-441.	0.9	13

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91	Lattice defects in III-V semiconductors. Physical Review B, 1981, 24, 6020-6028.	1.1	13
92	Theoretical aspects of scanning tunneling microscopy. Physica Scripta, 1988, 37, 359-369.	1.2	13
93	Nonconventional behavior of the one-band Hubbard Hamiltonian in two dimensions. Physical Review B, 1992, 46, 3163-3166.	1.1	13
94	Ground state of theU=â^ž Hubbard model with infinite-range hopping. Physical Review B, 1994, 49, 15400-15403.	1.1	13
95	An ab initio approach to electrical transport in molecular devices. Nanotechnology, 2002, 13, 378-381.	1.3	13
96	Electron states at steps in semiconductor surfaces. Solid State Communications, 1977, 22, 147-151.	0.9	12
97	A differential scanning calorimetry study of recovery and recrystallization in a commercial Al-Fe-Si alloy (AA1145). Scripta Metallurgica, 1984, 18, 549-553.	1.2	12
98	Localization in a one-dimensional quasiperiodic Hamiltonian with off-diagonal disorder. Physical Review B, 1987, 35, 5270-5272.	1.1	12
99	Effects of wetting and surface oxidation on the measurement of the surface tension of Al by the maximum bubble pressure method. Scripta Metallurgica Et Materialia, 1991, 25, 479-484.	1.0	12
100	Dimensional and band-structure effects on persistent currents in mesoscopic metallic rings. Physical Review B, 1998, 58, 6912-6919.	1.1	12
101	On the triple line in infiltration of liquid metals into porous preforms. Scripta Materialia, 2010, 62, 961-965.	2.6	12
102	Quantum chaos induced by scaled disorder. Physical Review E, 1999, 59, R3803-R3806.	0.8	11
103	Using topological statistics to detect determinism in time series. Physical Review E, 2000, 62, 3419-3428.	0.8	11
104	Anisotropic exchange interaction induced by a single photon in semiconductor microcavities. Physical Review B, 2005, 72, .	1.1	11
105	Relative stability of zinc-blende and rocksalt structures: Crystalline and atomic pseudopotentials and the critical ionicity. Physical Review B, 1981, 24, 4899-4902.	1.1	10
106	Temperature effects on the highly correlated electron gas of a Si-111(1 Å— 1) surface. Solid State Communications, 1983, 47, 939-941.	0.9	10
107	Current saturation through image surface states in scanning tunneling microscopy. Solid State Communications, 1986, 59, 453-455.	0.9	10
108	Stress corrosion susceptibility of Alî—,Znî—,Mg weldments: Microstructural effects. Scripta Metallurgica, 1989, 23, 2091-2096.	1.2	10

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109	Ground-state properties of theU=â^ž Hubbard model on a 4×4 cluster. Physical Review B, 1993, 48, 16539-16546.	1.1	10
110	Pressure infiltration in a reactive system: Packed SiC particulates infiltrated by pure silver with dissolved oxygen. Acta Materialia, 1997, 45, 5111-5118.	3.8	10
111	Chaotic behavior induced by point contacts in quantum dots. Physical Review B, 1998, 58, R10143-R10146.	1.1	10
112	Straight cracks in dynamic brittle fracture. Physical Review B, 2000, 61, 11472-11486.	1.1	10
113	Can model Hamiltonians describe the electron–electron interaction inπ-conjugated systems?: PAH and graphene. Journal of Physics Condensed Matter, 2015, 27, 463001.	0.7	10
114	Interpretation of DTA curves for microstructure characterization of a commercial Al-Zn-Mg alloy (7015), aided by conductivity and hardness measurements. Journal of Thermal Analysis, 1982, 24, 215-222.	0.7	9
115	Preparation of samples of heat treatable aluminium alloys for differential scanning calorimetry: Punching versus spark cutting. Scripta Metallurgica, 1984, 18, 291-294.	1.2	9
116	Preparation of samples of precipitation hardening aluminium alloys for differential scanning calorimetry (DSC). Thermochimica Acta, 1985, 93, 653-656.	1.2	9
117	Wave-function renormalization constant for the one-band Hubbard Hamiltonian in two dimensions. Physical Review B, 1993, 48, 426-436.	1.1	9
118	Recovery of the persistent current induced by the electron-electron interaction in mesoscopic metallic rings. Solid State Communications, 1996, 99, 717-721.	0.9	9
119	Diversity-induced synchronized oscillations in close-to-threshold excitable elements arranged on regular networks: Effects of network topology. Physica D: Nonlinear Phenomena, 2006, 219, 111-119.	1.3	9
120	Performance of excitable small-world networks of Bonhoeffer-van der Pol-FitzHugh-Nagumo oscillators. Europhysics Letters, 2006, 76, 780-786.	0.7	9
121	Decreasing the infiltration threshold pressure of Al–12wt% Si into alumina particle compacts by Sn or Pb layers. Composites Science and Technology, 2008, 68, 75-79.	3.8	9
122	Surface Green functions approach to planar defects and surfaces in copper: twin faults and (100) and (111) surfaces. Journal of Physics F: Metal Physics, 1980, 10, 207-223.	1.6	8
123	Many-body effects in the (111)-1×1 surface of highly doped silicon. Journal of Physics C: Solid State Physics, 1983, 16, L39-L43.	1.5	8
124	Geometric structure of ion-induced displacement cascades in solids. Physics Letters, Section A: General, Atomic and Solid State Physics, 1987, 126, 136-140.	0.9	8
125	Spin and Charge Excitations Induced by Holes in the Hubbard Model. Europhysics Letters, 1992, 17, 455-462.	0.7	8
126	Exact momentum distribution of theU=â^ž Hubbard model on a 4×4 cluster. Physical Review B, 1992, 46, 3506-3509.	1.1	8

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127	Energy fluctuations, Thouless energy, and conductance in the Anderson model in the ballistic and diffusive regimes. Physical Review B, 1997, 56, 15853-15859.	1.1	8
128	Viscous effects in brittle fracture. Physical Review B, 1998, 57, R13981-R13984.	1.1	8
129	High temperature infiltration at low overpressures: Darcy's law, the slug-flow hypothesis and percolation. Journal of Materials Science, 2015, 50, 1655-1665.	1.7	8
130	Vacancy at the Si(111) unreconstructed surface: Electron states and absence of the Jahn-Teller distortion. Solid State Communications, 1980, 36, 47-50.	0.9	7
131	Comment on â€~â€~Kinetics of anisothermal phase transformations''. Journal of Applied Physics, 1985, 57, 2975-2976.	1.1	7
132	Properties of elastic percolating networks in isotropic media with arbitrary elastic constants. Physical Review B, 1990, 41, 11449-11456.	1.1	7
133	Hole pairs in the two-dimensional Hubbard model. Europhysics Letters, 1998, 44, 229-234.	0.7	7
134	Transport regimes and critical energies in the two-dimensional Anderson model. Journal of Physics Condensed Matter, 1998, 10, 295-303.	0.7	7
135	Effects of Fermi energy, dot size, and leads width on weak localization in chaotic quantum dots. Physical Review B, 2001, 63, .	1.1	7
136	Wettability in pressure infiltration of SiC and oxidized SiC particle compacts by molten Al and Al-12wt%Si alloy. Journal of Materials Research, 2007, 22, 2273-2278.	1.2	7
137	Stress-strain curves of aluminum nanowires: Fluctuations in the plastic regime and absence of hardening. Physical Review B, 2008, 78, .	1.1	7
138	The Intrinsic Permeability of Packed SiC Particles with Monomodal and Bimodal Size Distributions. Journal of Composite Materials, 2008, 42, 2795-2804.	1.2	7
139	PPP Hamiltonian for polar polycyclic aromatic hydrocarbons. European Physical Journal B, 2011, 81, 253-262.	0.6	7
140	Reactive infiltration: identifying the role of chemical reactions, capillarity, viscosity and gravity. Journal of Materials Science, 2017, 52, 7530-7538.	1.7	7
141	Interface engineering in ferromagnetic high-thermal conductivity iron-diamond/metal composites for electric conversion applications. Journal of Alloys and Compounds, 2018, 736, 246-254.	2.8	7
142	Conductance through the armchair graphene nanoribbons 9-AGNR: Strong dependence on contact to leads. Physical Review B, 2018, 98, .	1.1	7
143	Electron enrichment of zigzag edges in armchair–oriented graphene nano–ribbons increases their stability and induces pinning of the Fermi level. Carbon, 2019, 154, 211-218.	5.4	7
144	The crystal ionicity of the zincblende and rocksalt compounds as a function of the valence band gap. Journal of Physics C: Solid State Physics, 1974, 7, L303-L307.	1.5	6

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145	Comment on "Ionicity and the theory of Schottky barrier". Physical Review B, 1977, 16, 4695-4697.	1.1	6
146	Polarization energy for core states of alkali halides. Physical Review B, 1979, 20, 2537-2541.	1.1	6
147	Electronic structure of vacancies in Si(111) unreconstructed surfaces. Physical Review B, 1981, 23, 6676-6690.	1.1	6
148	Correlation between charge and current corrugations in scanning-tunneling microscopy. Physical Review B, 1987, 35, 1433-1436.	1.1	6
149	Theory of scanning tunneling spectroscopy. Radiation Effects and Defects in Solids, 1989, 109, 309-323.	0.4	6
150	Self-organized criticality in Laplacian growth. Physical Review A, 1990, 42, 6270-6273.	1.0	6
151	Multiple-polaron description of the wave function of a single hole in Hubbard clusters of the square lattice. Physical Review B, 1993, 48, 9581-9585.	1.1	6
152	Dynamics of holes and universality class of the antiferromagnetic transition in the two-dimensional Hubbard model. Solid State Communications, 2000, 113, 593-597.	0.9	6
153	Effects of methods and basis set on ab initio calculations of electronic transport through hydrogenated Pt nanocontacts. International Journal of Quantum Chemistry, 2008, 108, 1637-1644.	1.0	6
154	Magnetism in hydro―and dehydrogenated benzene. Physica Status Solidi C: Current Topics in Solid State Physics, 2009, 6, 2139-2144.	0.8	6
155	Fabrication of Al/TiB2 composites through gas pressure infiltration. Journal of Materials Science, 2010, 45, 2816-2821.	1.7	6
156	Some Issues in Liquid Metals Research. Metals, 2015, 5, 2128-2133.	1.0	6
157	Anisothermal versus isothermal kinetics: the transferability of kinetic parameters. Thermochimica Acta, 1985, 92, 101-104.	1.2	5
158	Correlation and electron-phonon effects in the (111)-silicon dangling-bond surface states. Journal of Physics C: Solid State Physics, 1986, 19, 543-549.	1.5	5
159	Localization in disordered chains with on-site Coulomb repulsion. Physical Review B, 1987, 35, 7146-7149.	1.1	5
160	Hubbard Hamiltonian for high-Tcsuperconductors: The antiferromagnetic-paramagnetic transition. Physical Review B, 1991, 44, 415-418.	1.1	5
161	Analysis of the New Unrestricted Hartreeâ€Fock Vortex Solution of the Hubbard Hamiltonian in Twoâ€Dimensional Systems A Smallâ€Cluster Study. Physica Status Solidi (B): Basic Research, 1992, 173, 715-724.	0.7	5
162	On the fractal characteristics of the η model. Physica A: Statistical Mechanics and Its Applications, 1992, 191, 123-127.	1.2	5

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163	Pattern formation in screened electrostatic fields: Growth in a channel and in two dimensions. Physical Review E, 1993, 47, 2729-2735.	0.8	5
164	Title is missing!. Journal of Materials Science Letters, 2001, 20, 405-407.	0.5	5
165	Thermal expansion coefficient and wear performance of aluminium/SiC composites with bimodal particle distributions. Materials Science and Technology, 2003, 19, 491-496.	0.8	5
166	On the forbidden gap of finite graphene nanoribbons. European Physical Journal B, 2015, 88, 1.	0.6	5
167	A further comment on particle size determination by means of differential scanning calorimetry. Scripta Metallurgica, 1986, 20, 1223-1225.	1.2	4
168	Interfacial design of Mg/graphite flakes-MP (MP=Fe, Co or Ni) ferromagnetic composites with low density and high thermal conductivity. Journal of Alloys and Compounds, 2018, 767, 1155-1163.	2.8	4
169	Band structure features involved in charge transfer in bonds. Physics Letters, Section A: General, Atomic and Solid State Physics, 1974, 47, 293-294.	0.9	3
170	Resistivity of aluminium binary alloys in annealed condition. Metal Science, 1980, 14, 597-600.	0.7	3
171	Short- and long-range-order features in the electronic structure of bulk and surface vacancies in diamond-structure semiconductors. Physical Review B, 1981, 24, 3474-3480.	1.1	3
172	General solution of the periodic Anderson Hamiltonian in one dimension atT=0K: Symmetric and nonsymmetric cases. Physical Review B, 1984, 30, 7299-7301.	1.1	3
173	Quasi-particle density of states of the one-dimensional Anderson-Hubbard Hamiltonian. Solid State Communications, 1985, 54, 961-964.	0.9	3
174	Effect of disordered concentrated nonmagnetic impurities on the periodic Anderson Hamiltonian in one dimension. Physical Review B, 1986, 34, 6415-6419.	1.1	3
175	Growth instabilities in mechanical breakdown. Physical Review E, 1994, 49, R994-R996.	0.8	3
176	Ground state properties of interacting electrons in semiconductor quantum dots: Exact and unrestricted hartree-fock results. Solid-State Electronics, 1994, 37, 1179-1182.	0.8	3
177	Hubbard Hamiltonian: Highly correlated electrons from the perspective of the theory of disordered systems. Physical Review B, 1995, 51, 326-333.	1.1	3
178	Dimensional effects in photoelectron spectra of Ag deposits on GaAs(110) surfaces. Physical Review B, 1996, 53, 6967-6970.	1.1	3
179	Correlation decay in quantum chaotic billiards with bulk or surface disorder. Physical Review E, 1999, 60, 391-397.	0.8	3
180	On the validity of the two-cells model in the analysis of passive electrical properties of gap-junction connected cells. European Biophysics Journal, 2001, 30, 374-377.	1.2	3

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181	Discriminating dynamical from additive noise in the Van der Pol oscillator. Physica D: Nonlinear Phenomena, 2002, 171, 8-18.	1.3	3
182	Quasicrystalline and Rational Approximant Wave Patterns in Hydrodynamic and Quantum Nested Wells. Physical Review Letters, 2006, 97, 124501.	2.9	3
183	Non-Gaussian tails in the probability distribution function of heat exchanged during isothermal stretching of aluminum and gold nanowires. Physical Review E, 2009, 80, 030105.	0.8	3
184	Size-scaling behaviour of the electronic polarizability of one-dimensional interacting systems. Journal of Physics Condensed Matter, 2018, 30, 175603.	0.7	3
185	Electronic properties of Si(111) semiconductor surfaces. Surface Science, 1985, 162, 156-162.	0.8	2
186	Many-body effects in the paramagnetic and antiferromagnetic states of the (111) silicon face. Physical Review B, 1986, 33, 537-543.	1.1	2
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