

# Enrique Louis

## List of Publications by Year in descending order

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208  
papers

5,222  
citations

117453

34  
h-index

114278

63  
g-index

209  
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209  
docs citations

209  
times ranked

3147  
citing authors

#	ARTICLE	IF	CITATIONS
1	Probability distribution for heat exchange in plastic deformation. <i>Physical Review E</i> , 2021, 104, 034101.	0.8	0
2	Electron enrichment of zigzag edges in armchair-oriented graphene nano-ribbons increases their stability and induces pinning of the Fermi level. <i>Carbon</i> , 2019, 154, 211-218.	5.4	7
3	Transport and Optical Gaps in Amorphous Organic Molecular Materials. <i>Molecules</i> , 2019, 24, 609.	1.7	0
4	Size-scaling behaviour of the electronic polarizability of one-dimensional interacting systems. <i>Journal of Physics Condensed Matter</i> , 2018, 30, 175603.	0.7	3
5	Interface engineering in ferromagnetic high-thermal conductivity iron-diamond/metal composites for electric conversion applications. <i>Journal of Alloys and Compounds</i> , 2018, 736, 246-254.	2.8	7
6	Conductance through the armchair graphene nanoribbons 9-AGNR: Strong dependence on contact to leads. <i>Physical Review B</i> , 2018, 98, .	1.1	7
7	Interfacial design of Mg/graphite flakes-MP (MP=Fe, Co or Ni) ferromagnetic composites with low density and high thermal conductivity. <i>Journal of Alloys and Compounds</i> , 2018, 767, 1155-1163.	2.8	4
8	Are Electron Affinity and Ionization Potential Intrinsic Parameters to Predict the Electron or Hole Acceptor Character of Amorphous Molecular Materials?. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 2445-2449.	2.1	40
9	Reactive infiltration: identifying the role of chemical reactions, capillarity, viscosity and gravity. <i>Journal of Materials Science</i> , 2017, 52, 7530-7538.	1.7	7
10	Porosity Effect on Thermal Properties of Al-12 wt % Si/Graphite Composites. <i>Materials</i> , 2017, 10, 177.	1.3	35
11	Herringbone Pattern and CH Bonding in the Crystal Architecture of Linear Polycyclic Aromatic Hydrocarbons. <i>ChemPhysChem</i> , 2016, 17, 3548-3557.	1.0	23
12	Role of Al <sub>4</sub> C <sub>3</sub> on the stability of the thermal conductivity of Al/diamond composites subjected to constant or oscillating temperature in a humid environment. <i>Journal of Materials Science</i> , 2016, 51, 8027-8036.	1.7	29
13	Effects of infiltration pressure on mechanical properties of Al-12Si/graphite composites for piston engines. <i>Composites Part B: Engineering</i> , 2016, 91, 441-447.	5.9	32
14	Interfacial nano-engineering in Al/diamond composites for thermal management by in situ diamond surface gas desorption. <i>Scripta Materialia</i> , 2016, 115, 159-163.	2.6	21
15	Some Issues in Liquid Metals Research. <i>Metals</i> , 2015, 5, 2128-2133.	1.0	6
16	Can model Hamiltonians describe the electron-electron interaction in $\pi$ -conjugated systems?: PAH and graphene. <i>Journal of Physics Condensed Matter</i> , 2015, 27, 463001.	0.7	10
17	High temperature infiltration at low overpressures: Darcy's law, the slug-flow hypothesis and percolation. <i>Journal of Materials Science</i> , 2015, 50, 1655-1665.	1.7	8
18	Anisotropy in thermal conductivity of graphite flakes-SiCp/matrix composites: Implications in heat sinking design for thermal management applications. <i>Materials Characterization</i> , 2015, 109, 107-115.	1.9	25

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19	On the forbidden gap of finite graphene nanoribbons. <i>European Physical Journal B</i> , 2015, 88, 1.	0.6	5
20	On critical aspects of infiltrated Al/diamond composites for thermal management: Diamond quality versus processing conditions. <i>Composites Part A: Applied Science and Manufacturing</i> , 2014, 67, 70-76.	3.8	25
21	Optimizing thermal conductivity in gas-pressure infiltrated aluminum/diamond composites by precise processing control. <i>Composites Part A: Applied Science and Manufacturing</i> , 2013, 48, 9-14.	3.8	87
22	Fabrication of mesophase pitch-derived open-pore carbon foams by replication processing. <i>Carbon</i> , 2012, 50, 1904-1912.	5.4	35
23	Aluminum/diamond composites: A preparative method to characterize reactivity and selectivity at the interface. <i>Scripta Materialia</i> , 2012, 66, 789-792.	2.6	46
24	Thermal conductivity of graphite flakes/SiC particles/metal composites. <i>Composites Part A: Applied Science and Manufacturing</i> , 2011, 42, 1970-1977.	3.8	108
25	PPP Hamiltonian for polar polycyclic aromatic hydrocarbons. <i>European Physical Journal B</i> , 2011, 81, 253-262.	0.6	7
26	A stripe with a local gate potential: An efficient magnetometer?. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2011, 208, 720-724.	0.8	0
27	Fabrication of Al/TiB <sub>2</sub> composites through gas pressure infiltration. <i>Journal of Materials Science</i> , 2010, 45, 2816-2821.	1.7	6
28	On the triple line in infiltration of liquid metals into porous preforms. <i>Scripta Materialia</i> , 2010, 62, 961-965.	2.6	12
29	Fit of Pariser-Parr-Pople and Hubbard model Hamiltonians to charge and spin states of polycyclic aromatic hydrocarbons. <i>Physical Review B</i> , 2010, 81, .	1.1	25
30	Non-Gaussian tails in the probability distribution function of heat exchanged during isothermal stretching of aluminum and gold nanowires. <i>Physical Review E</i> , 2009, 80, 030105.	0.8	3
31	Magnetic molecules created by hydrogenation of polycyclic aromatic hydrocarbons. <i>Physical Review B</i> , 2009, 79, .	1.1	14
32	The effect of porosity on the thermal conductivity of Al-12wt.% Si/SiC composites. <i>Scripta Materialia</i> , 2009, 60, 582-585.	2.6	96
33	Magnetism in hydro- and dehydrogenated benzene. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2009, 6, 2139-2144.	0.8	6
34	Asymmetry between Absorption and Photoluminescence Line Shapes of TPD: Spectroscopic Fingerprint of the Twisted Biphenyl Core. <i>Journal of Physical Chemistry A</i> , 2009, 113, 315-324.	1.1	33
35	Decreasing the infiltration threshold pressure of Al-12wt% Si into alumina particle compacts by Sn or Pb layers. <i>Composites Science and Technology</i> , 2008, 68, 75-79.	3.8	9
36	Effects of methods and basis set on ab initio calculations of electronic transport through hydrogenated Pt nanocontacts. <i>International Journal of Quantum Chemistry</i> , 2008, 108, 1637-1644.	1.0	6

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37	Increasing Lubricant Film Lifetime by Grooving Periodical Patterns Using Laser Interference Metallurgy. <i>Advanced Engineering Materials</i> , 2008, 10, 554-558.	1.6	71
38	Liquid metal infiltration into ceramic particle compacts chemically and morphologically heterogeneous. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008, 495, 288-291.	2.6	1
39	Thermal conductivity of Al-SiC composites with monomodal and bimodal particle size distribution. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008, 480, 483-488.	2.6	144
40	Wetting and capillarity in the Sn/graphite system. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008, 495, 187-191.	2.6	19
41	Pore filling in graphite particle compacts infiltrated with Al-12wt.%Si and Al-12wt.%Si-1wt.%Cu alloys. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008, 495, 276-281.	2.6	18
42	Fabrication and properties of graphite flakes/metal composites for thermal management applications. <i>Scripta Materialia</i> , 2008, 59, 11-14.	2.6	144
43	Stress-strain curves of aluminum nanowires: Fluctuations in the plastic regime and absence of hardening. <i>Physical Review B</i> , 2008, 78, .	1.1	7
44	The Intrinsic Permeability of Packed SiC Particles with Monomodal and Bimodal Size Distributions. <i>Journal of Composite Materials</i> , 2008, 42, 2795-2804.	1.2	7
45	Wettability in pressure infiltration of SiC and oxidized SiC particle compacts by molten Al and Al-12wt.%Si alloy. <i>Journal of Materials Research</i> , 2007, 22, 2273-2278.	1.2	7
46	Role of transport performance for neuron cell morphology. <i>FASEB Journal</i> , 2007, 21, 866-871.	0.2	1
47	Transport regimes in surface disordered graphene sheets. <i>Physical Review B</i> , 2007, 75, .	1.1	46
48	Capillary Phenomena at Grain Boundaries Gains Focus at HTC-5. <i>MRS Bulletin</i> , 2007, 32, 672-672.	1.7	0
49	Infiltration of graphite preforms with Al-Si eutectic alloy and mercury. <i>Scripta Materialia</i> , 2007, 56, 991-994.	2.6	33
50	The surface tension of liquid aluminium in high vacuum: The role of surface condition. <i>International Journal of Adhesion and Adhesives</i> , 2007, 27, 394-401.	1.4	94
51	Anisotropic exchange interaction induced by a few photons in semiconductor microcavities. <i>Physica Status Solidi (B): Basic Research</i> , 2006, 243, 3885-3889.	0.7	0
52	Pressure infiltration of Al-12wt.% Si-X (X=Cu, Ti, Mg) alloys into graphite particle preforms. <i>Acta Materialia</i> , 2006, 54, 1821-1831.	3.8	78
53	Diversity-induced synchronized oscillations in close-to-threshold excitable elements arranged on regular networks: Effects of network topology. <i>Physica D: Nonlinear Phenomena</i> , 2006, 219, 111-119.	1.3	9
54	Performance of excitable small-world networks of Bonhoeffer-van der Pol-FitzHugh-Nagumo oscillators. <i>Europhysics Letters</i> , 2006, 76, 780-786.	0.7	9

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55	Reactivity and thermal behaviour of Cuâ€“Si/SiC composites: effects of SiC oxidation. <i>Materials Science and Technology</i> , 2006, 22, 1464-1468.	0.8	19
56	Quasicrystalline and Rational Approximant Wave Patterns in Hydrodynamic and Quantum Nested Wells. <i>Physical Review Letters</i> , 2006, 97, 124501.	2.9	3
57	Effects of temperature on pressure infiltration of liquid Al and Alâ€“12wt.%Si alloy into packed SiC particles. <i>Scripta Materialia</i> , 2005, 53, 1483-1488.	2.6	26
58	Anisotropic exchange interaction induced by a single photon in semiconductor microcavities. <i>Physical Review B</i> , 2005, 72, .	1.1	11
59	Liquid metal infiltration into ceramic particle preforms with bimodal size distributions. <i>Current Opinion in Solid State and Materials Science</i> , 2005, 9, 202-210.	5.6	56
60	Threshold pressure for infiltration and particle specific surface area of particle compacts with bimodal size distributions. <i>Scripta Materialia</i> , 2004, 51, 623-627.	2.6	24
61	Conditioned spikes: a simple and fast method to represent rates and temporal patterns in multielectrode recordings. <i>Journal of Neuroscience Methods</i> , 2004, 133, 135-141.	1.3	18
62	Surface modification of 2014 aluminium alloyâ€“Al <sub>2</sub> O <sub>3</sub> particles composites by nickel electrochemical deposition. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2004, 383, 299-306.	2.6	32
63	Analysis of Scanning Tunneling Spectroscopy Experiments from First Principles: The Test Case of C60 Adsorbed on Au(111). <i>ChemPhysChem</i> , 2003, 4, 388-392.	1.0	31
64	Thermal expansion behaviour of aluminium/SiC composites with bimodal particle distributions. <i>Acta Materialia</i> , 2003, 51, 3145-3156.	3.8	134
65	First-Principles Phase-Coherent Transport in Metallic Nanotubes with Realistic Contacts. <i>Physical Review Letters</i> , 2003, 90, 106801.	2.9	159
66	Interfacial reactions in Al/TiC particulate composites produced by pressure infiltration. <i>Materials Science and Technology</i> , 2003, 19, 1225-1230.	0.8	15
67	Thermal expansion coefficient and wear performance of aluminium/SiC composites with bimodal particle distributions. <i>Materials Science and Technology</i> , 2003, 19, 491-496.	0.8	5
68	An ab initio approach to electrical transport in molecular devices. <i>Nanotechnology</i> , 2002, 13, 378-381.	1.3	13
69	Effects of fluctuations on electrical properties of gap-junction connected cells in the turtle retina. <i>Neuroscience Letters</i> , 2002, 323, 21-24.	1.0	2
70	Pressure infiltration of liquid aluminium into packed SiC particulate with a bimodal size distribution. <i>Acta Materialia</i> , 2002, 50, 247-257.	3.8	105
71	Discriminating dynamical from additive noise in the Van der Pol oscillator. <i>Physica D: Nonlinear Phenomena</i> , 2002, 171, 8-18.	1.3	3
72	Title is missing!. <i>Journal of Materials Science Letters</i> , 2002, 21, 309-311.	0.5	20

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73	On the validity of the two-cells model in the analysis of passive electrical properties of gap-junction connected cells. <i>European Biophysics Journal</i> , 2001, 30, 374-377.	1.2	3
74	Title is missing!. <i>Journal of Materials Science Letters</i> , 2001, 20, 405-407.	0.5	5
75	Medium/high-field magnetoconductance in chaotic quantum dots. <i>Journal of Physics Condensed Matter</i> , 2001, 13, 2935-2945.	0.7	0
76	Electronic transport through C60molecules. <i>Nanotechnology</i> , 2001, 12, 160-163.	1.3	31
77	Effects of Fermi energy, dot size, and leads width on weak localization in chaotic quantum dots. <i>Physical Review B</i> , 2001, 63, .	1.1	7
78	Dynamics of holes and universality class of the antiferromagnetic transition in the two-dimensional Hubbard model. <i>Solid State Communications</i> , 2000, 113, 593-597.	0.9	6
79	Straight cracks in dynamic brittle fracture. <i>Physical Review B</i> , 2000, 61, 11472-11486.	1.1	10
80	Self-similar magnetoconductance fluctuations in quantum dots. <i>Physical Review B</i> , 2000, 61, 13014-13020.	1.1	22
81	Using topological statistics to detect determinism in time series. <i>Physical Review E</i> , 2000, 62, 3419-3428.	0.8	11
82	Correlation decay in quantum chaotic billiards with bulk or surface disorder. <i>Physical Review E</i> , 1999, 60, 391-397.	0.8	3
83	Quantum chaos induced by scaled disorder. <i>Physical Review E</i> , 1999, 59, R3803-R3806.	0.8	11
84	Configuration-interaction approach to hole pairing in the two-dimensional Hubbard model. <i>Physical Review B</i> , 1999, 59, 14005-14016.	1.1	19
85	Are neurons multifractals?. <i>Journal of Neuroscience Methods</i> , 1999, 89, 151-157.	1.3	52
86	Pressure infiltration of packed ceramic particulates by liquid metals. <i>Acta Materialia</i> , 1999, 47, 4461-4479.	3.8	174
87	Numerical simulation of the voltammetric electrooxidation of CO adsorbed on Pt(111). <i>Electrochimica Acta</i> , 1998, 44, 1221-1227.	2.6	14
88	Monte Carlo simulation of CO adlayers electrooxidation on Pt(111). <i>Surface Science</i> , 1998, 416, 371-383.	0.8	26
89	Dimensional and band-structure effects on persistent currents in mesoscopic metallic rings. <i>Physical Review B</i> , 1998, 58, 6912-6919.	1.1	12
90	Hole pairs in the two-dimensional Hubbard model. <i>Europhysics Letters</i> , 1998, 44, 229-234.	0.7	7

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91	Transport regimes and critical energies in the two-dimensional Anderson model. <i>Journal of Physics Condensed Matter</i> , 1998, 10, 295-303.	0.7	7
92	Viscous effects in brittle fracture. <i>Physical Review B</i> , 1998, 57, R13981-R13984.	1.1	8
93	Smoothness Implies Determinism in Time Series: A Measure Based Approach. <i>Physical Review Letters</i> , 1998, 81, 4345-4348.	2.9	30
94	Chaotic behavior induced by point contacts in quantum dots. <i>Physical Review B</i> , 1998, 58, R10143-R10146.	1.1	10
95	Global quantum fluctuations in metallic particles. <i>Physical Review B</i> , 1997, 56, R7045-R7048.	1.1	2
96	Chaotic dynamics in an elastic medium with surface disorder. <i>Physical Review E</i> , 1997, 56, 4125-4129.	0.8	1
97	Energy fluctuations, Thouless energy, and conductance in the Anderson model in the ballistic and diffusive regimes. <i>Physical Review B</i> , 1997, 56, 15853-15859.	1.1	8
98	Mean free path and energy fluctuations in quantum chaotic billiards. <i>Physical Review B</i> , 1997, 56, 2120-2126.	1.1	14
99	Pressure infiltration of packed Al <sub>2</sub> O <sub>3</sub> particulates by pure silver. <i>Scripta Materialia</i> , 1997, 36, 363-368.	2.6	14
100	Pressure infiltration in a reactive system: Packed SiC particulates infiltrated by pure silver with dissolved oxygen. <i>Acta Materialia</i> , 1997, 45, 5111-5118.	3.8	10
101	Model of Quantum Chaotic Billiards: Spectral Statistics and Wave Functions in Two Dimensions. <i>Physical Review Letters</i> , 1996, 77, 1970-1973.	2.9	43
102	Abrasive wear resistance of aluminium alloy/ceramic particulate composites. <i>Wear</i> , 1996, 192, 170-177.	1.5	122
103	Recovery of the persistent current induced by the electron-electron interaction in mesoscopic metallic rings. <i>Solid State Communications</i> , 1996, 99, 717-721.	0.9	9
104	Dimensional effects in photoelectron spectra of Ag deposits on GaAs(110) surfaces. <i>Physical Review B</i> , 1996, 53, 6967-6970.	1.1	3
105	Factors affecting pressure infiltration of packed SiC particulates by liquid aluminum. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 1995, 26, 983-990.	1.1	31
106	Growth instabilities in mechanical breakdown under mechanical and thermal stresses. <i>Physical Review E</i> , 1995, 52, 6476-6483.	0.8	0
107	Hubbard Hamiltonian: Highly correlated electrons from the perspective of the theory of disordered systems. <i>Physical Review B</i> , 1995, 51, 326-333.	1.1	3
108	Ground state of the $U=\infty$ Hubbard model with infinite-range hopping. <i>Physical Review B</i> , 1994, 49, 15400-15403.	1.1	13

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109	Capacitance spectroscopy in quantum dots: Addition spectra and decrease of tunneling rates. <i>Physical Review B</i> , 1994, 50, 5760-5763.	1.1	147
110	Growth instabilities in mechanical breakdown. <i>Physical Review E</i> , 1994, 49, R994-R996.	0.8	3
111	A differential scanning calorimetry study of solid state reactions in AA6061-Ti-SiC, AA6061-Ti-Al <sub>2</sub> O <sub>3</sub> and A357-Ti-SiC composites fabricated by means of compocasting. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1994, 189, 219-227.	2.6	20
112	Microstructure and susceptibility to stress corrosion cracking of Al-Ti-Zn-Mg weldments (AA-7017). <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1994, 174, 173-186.	2.6	16
113	Ground state properties of interacting electrons in semiconductor quantum dots: Exact and unrestricted hartree-fock results. <i>Solid-State Electronics</i> , 1994, 37, 1179-1182.	0.8	3
114	Wettability of binary and ternary alloys of the system Al-Si-Mg with SiC particulates. <i>Scripta Metallurgica Et Materialia</i> , 1994, 31, 1495-1500.	1.0	37
115	Evaluation of the wettability of liquid aluminum with ceramic particulates (SiC, TiC, Al <sub>2</sub> O <sub>3</sub> ) by means of pressure infiltration. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 1993, 24, 1423-1432.	1.1	88
116	Complexity and Criticality in Laplacian Growth Models. <i>Europhysics Letters</i> , 1993, 24, 701-705.	0.7	0
117	Growth and forms of Laplacian aggregates. <i>Physical Review E</i> , 1993, 48, 1296-1304.	0.8	25
118	Multiple-polaron description of the wave function of a single hole in Hubbard clusters of the square lattice. <i>Physical Review B</i> , 1993, 48, 9581-9585.	1.1	6
119	Wave-function renormalization constant for the one-band Hubbard Hamiltonian in two dimensions. <i>Physical Review B</i> , 1993, 48, 426-436.	1.1	9
120	Pattern formation in screened electrostatic fields: Growth in a channel and in two dimensions. <i>Physical Review E</i> , 1993, 47, 2729-2735.	0.8	5
121	Ground-state properties of the $U=\hat{\alpha}$ Hubbard model on a $4\text{\AA}-4$ cluster. <i>Physical Review B</i> , 1993, 48, 16539-16546.	1.1	10
122	Spin and Charge Excitations Induced by Holes in the Hubbard Model. <i>Europhysics Letters</i> , 1992, 17, 455-462.	0.7	8
123	Exact momentum distribution of the $U=\hat{\alpha}$ Hubbard model on a $4\text{\AA}-4$ cluster. <i>Physical Review B</i> , 1992, 46, 3506-3509.	1.1	8
124	Unrestricted Hartree-Fock study of the two-band Hamiltonian in doped CuO <sub>2</sub> planes. <i>Physical Review B</i> , 1992, 46, 3562-3572.	1.1	26
125	Excitations and response functions of the doped two-dimensional Hubbard model: A random-phase-approximation analysis. <i>Physical Review B</i> , 1992, 45, 4752-4758.	1.1	14
126	Pattern formation in screened electrostatic fields. <i>Physical Review Letters</i> , 1992, 68, 209-212.	2.9	15

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127	Nonconventional behavior of the one-band Hubbard Hamiltonian in two dimensions. <i>Physical Review B</i> , 1992, 46, 3163-3166.	1.1	13
128	Analysis of the New Unrestricted Hartree-Fock Vortex Solution of the Hubbard Hamiltonian in Two-Dimensional Systems A Small-Cluster Study. <i>Physica Status Solidi (B): Basic Research</i> , 1992, 173, 715-724.	0.7	5
129	On the fractal characteristics of the $\hat{I}$ -model. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1992, 191, 123-127.	1.2	5
130	Reactivity of thermally oxidized and unoxidized SiC particulates with aluminium-silicon alloys. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 1992, 15, 148-155.	1.7	66
131	Surface tension of binary and ternary aluminium alloys of the systems Al-Si-Mg and Al-Zn-Mg. <i>Journal of Materials Science</i> , 1992, 27, 5247-5252.	1.7	50
132	Effects of wetting and surface oxidation on the measurement of the surface tension of Al by the maximum bubble pressure method. <i>Scripta Metallurgica Et Materialia</i> , 1991, 25, 479-484.	1.0	12
133	A differential scanning calorimetry investigation of the effects of zinc and copper on solid state reactions in Al-Zn-Mg-Cu alloys. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1991, 132, 135-141.	2.6	23
134	Holes and Magnetic Textures in the Two-Dimensional Hubbard Model. <i>Europhysics Letters</i> , 1991, 14, 157-163.	0.7	39
135	Hubbard Hamiltonian for high-Tc superconductors: The antiferromagnetic-paramagnetic transition. <i>Physical Review B</i> , 1991, 44, 415-418.	1.1	5
136	Holes and magnetic textures in the two-dimensional Hubbard model. <i>Physical Review B</i> , 1991, 43, 6099-6108.	1.1	129
137	Elastic properties of an inhomogeneously diluted isotropic medium. <i>Physical Review B</i> , 1991, 44, 9704-9707.	1.1	1
138	Crossover between different growth regimes in crack formation. <i>Physical Review A</i> , 1990, 42, 3670-3673.	1.0	20
139	Calculation of H-H potential energies and fusion rates in PdxH2 clusters ( $x=2,4$ ). <i>Physical Review B</i> , 1990, 42, 4996-4999.	1.1	2
140	Properties of elastic percolating networks in isotropic media with arbitrary elastic constants. <i>Physical Review B</i> , 1990, 41, 11449-11456.	1.1	7
141	Self-organized criticality in Laplacian growth. <i>Physical Review A</i> , 1990, 42, 6270-6273.	1.0	6
142	Surface Green function approach to the calculation of tunnelling currents in normal metal-superconductor junctions. <i>Journal of Physics Condensed Matter</i> , 1990, 2, 4143-4152.	0.7	1
143	Theory of scanning tunneling spectroscopy. <i>Radiation Effects and Defects in Solids</i> , 1989, 109, 309-323.	0.4	6
144	Possibility of finding reliable solid-state tight-binding parameters for the Si-N bond through quantum-chemistry calculations. <i>Physical Review B</i> , 1989, 39, 1844-1855.	1.1	16

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145	Fracture as a growth process. <i>Physica D: Nonlinear Phenomena</i> , 1989, 38, 235-241.	1.3	30
146	Stress corrosion susceptibility of Al $\hat{r}$ -Zn $\hat{r}$ -Mg weldments: Microstructural effects. <i>Scripta Metallurgica</i> , 1989, 23, 2091-2096.	1.2	10
147	Many-body effects in the Si(111)7 $\hat{A}$ -7 reconstructed surface. <i>Surface Science</i> , 1988, 197, L269-L272.	0.8	0
148	Theoretical aspects of scanning tunneling microscopy. <i>Physica Scripta</i> , 1988, 37, 359-369.	1.2	13
149	Percolation in Isotropic Elastic Media. <i>Physical Review Letters</i> , 1988, 60, 124-127.	2.9	24
150	Garcia-Molina, Guinea, and Louis Reply. <i>Physical Review Letters</i> , 1988, 61, 2503-2503.	2.9	2
151	The Fractal Nature of Fracture. <i>Europhysics Letters</i> , 1987, 3, 871-877.	0.7	144
152	Localization in disordered chains with on-site Coulomb repulsion. <i>Physical Review B</i> , 1987, 35, 7146-7149.	1.1	5
153	Correlation between charge and current corrugations in scanning-tunneling microscopy. <i>Physical Review B</i> , 1987, 35, 1433-1436.	1.1	6
154	Localization in a one-dimensional quasiperiodic Hamiltonian with off-diagonal disorder. <i>Physical Review B</i> , 1987, 35, 5270-5272.	1.1	12
155	Geometric structure of ion-induced displacement cascades in solids. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1987, 126, 136-140.	0.9	8
156	A further comment on particle size determination by means of differential scanning calorimetry. <i>Scripta Metallurgica</i> , 1986, 20, 1223-1225.	1.2	4
157	Random Bethe lattice approach to the mobility edges of hydrogenated and flourinated amorphous silicon. <i>Solid State Communications</i> , 1986, 60, 157-160.	0.9	17
158	Current saturation through image surface states in scanning tunneling microscopy. <i>Solid State Communications</i> , 1986, 59, 453-455.	0.9	10
159	Correlation and electron-phonon effects in the (111)-silicon dangling-bond surface states. <i>Journal of Physics C: Solid State Physics</i> , 1986, 19, 543-549.	1.5	5
160	Effect of disordered concentrated nonmagnetic impurities on the periodic Anderson Hamiltonian in one dimension. <i>Physical Review B</i> , 1986, 34, 6415-6419.	1.1	3
161	Many-body effects in the paramagnetic and antiferromagnetic states of the (111) silicon face. <i>Physical Review B</i> , 1986, 33, 537-543.	1.1	2
162	Interpolative solution for the periodic Anderson model of mixed-valence compounds. <i>Physical Review B</i> , 1986, 33, 1814-1822.	1.1	41

#	ARTICLE	IF	CITATIONS
163	Preparation of samples of precipitation hardening aluminium alloys for differential scanning calorimetry (DSC). <i>Thermochimica Acta</i> , 1985, 93, 653-656.	1.2	9
164	Anisothermal versus isothermal kinetics: the transferability of kinetic parameters. <i>Thermochimica Acta</i> , 1985, 92, 101-104.	1.2	5
165	Comment on "Kinetics of anisothermal phase transformations". <i>Journal of Applied Physics</i> , 1985, 57, 2975-2976.	1.1	7
166	Electrostatic edge modes of a hyperbolic dielectric wedge: Analytical solution. <i>Physical Review B</i> , 1985, 32, 6045-6047.	1.1	20
167	Quasi-particle density of states of the one-dimensional Anderson-Hubbard Hamiltonian. <i>Solid State Communications</i> , 1985, 54, 961-964.	0.9	3
168	Electronic properties of Si(111) semiconductor surfaces. <i>Surface Science</i> , 1985, 162, 156-162.	0.8	2
169	High temperature embrittlement in supersaturated Al <sub>i</sub> -Mn alloys. <i>Scripta Metallurgica</i> , 1985, 19, 1113-1116.	1.2	1
170	Electron correlation effects at vacancies in Si(111) unreconstructed surfaces. <i>Physical Review B</i> , 1984, 30, 1038-1041.	1.1	1
171	Quasiparticle spectral density of low-dimensional Hubbard Hamiltonians. <i>Physical Review B</i> , 1984, 29, 476-478.	1.1	16
172	General solution of the periodic Anderson Hamiltonian in one dimension at T=0K: Symmetric and nonsymmetric cases. <i>Physical Review B</i> , 1984, 30, 7299-7301.	1.1	3
173	The measurement of surface tension of liquid aluminium by means of the maximum bubble pressure method: The effect of surface oxidation. <i>Scripta Metallurgica</i> , 1984, 18, 869-872.	1.2	57
174	A differential scanning calorimetry study of recovery and recrystallization in a commercial Al-Fe-Si alloy (AA1145). <i>Scripta Metallurgica</i> , 1984, 18, 549-553.	1.2	12
175	Preparation of samples of heat treatable aluminium alloys for differential scanning calorimetry: Punching versus spark cutting. <i>Scripta Metallurgica</i> , 1984, 18, 291-294.	1.2	9
176	Temperature effects on the highly correlated electron gas of a Si-111(1 Å <sup>-1</sup> ) surface. <i>Solid State Communications</i> , 1983, 47, 939-941.	0.9	10
177	Many-body effects in the (111)-1 Å <sup>-1</sup> surface of highly doped silicon. <i>Journal of Physics C: Solid State Physics</i> , 1983, 16, L39-L43.	1.5	8
178	Electronic structure of line defects by means of the scattering theoretical method. Application to lines of vacancies in the simple cubic lattice. <i>Physical Review B</i> , 1983, 28, 4419-4425.	1.1	0
179	Effective two-dimensional Hamiltonian at surfaces. <i>Physical Review B</i> , 1983, 28, 4397-4402.	1.1	260
180	Interpretation of DTA curves for microstructure characterization of a commercial Al-Zn-Mg alloy (7015), aided by conductivity and hardness measurements. <i>Journal of Thermal Analysis</i> , 1982, 24, 215-222.	0.7	9

#	ARTICLE	IF	CITATIONS
181	Many-body effects in the (111)-silicon dangling-bond surface states. Solid State Communications, 1982, 44, 1633-1636.	0.9	27
182	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
183	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
184	Lattice defects in III-V semiconductors. Physical Review B, 1981, 24, 6020-6028.	1.1	13
185	Electronic structure of vacancies in Si(111) unreconstructed surfaces. Physical Review B, 1981, 23, 6676-6690.	1.1	6
186	Resistivity of aluminium binary alloys in annealed condition. Metal Science, 1980, 14, 597-600.	0.7	3
187	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
188	Nature of star-shaped clusters of FeAl <sub>3</sub> in aluminium-iron alloys. Metal Science, 1980, 14, 591-594.	0.7	21
189	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
190	Metal-semiconductor junctions: Clean and etched interfaces. Surface Science, 1980, 99, 213-222.	0.8	1
191	Polarization energy for core states of alkali halides. Physical Review B, 1979, 20, 2537-2541.	1.1	6
192	Electronic structure of H chemisorbed on Si(111) surfaces. Solid State Communications, 1978, 25, 439-441.	0.9	13
193	Comment on "Ionicity and the theory of Schottky barrier". Physical Review B, 1977, 16, 4695-4697.	1.1	6
194	Electron states at planar and stepped semiconductor surfaces. Physical Review B, 1977, 16, 1542-1551.	1.1	32
195	The metal-semiconductor interface: Si (111) and zincblende (110) junctions. Journal of Physics C: Solid State Physics, 1977, 10, 2163-2177.	1.5	268
196	Electron states at steps in semiconductor surfaces. Solid State Communications, 1977, 22, 147-151.	0.9	12
197	Electron states on the (111) surface of copper. Solid State Communications, 1977, 22, 663-666.	0.9	30
198	Electronic structure of the Ge <sub>1-x</sub> GaAs (111) and () heterojunctions. Solid State Communications, 1977, 24, 849-852.	0.9	17

#	ARTICLE	IF	CITATIONS
199	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
200	Metal-semiconductor junction for (110) surfaces of zinc-blende compounds. Physical Review B, 1976, 13, 4408-4418.	1.1	85
201	Pseudopotential calculation of the surface band structure of (111) diamond and zinc-blende faces: Ge, $\hat{1}\hat{\pm}\hat{\alpha}$ Sn, GaAs, and ZnS. Physical Review B, 1975, 12, 618-623.	1.1	21
202	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
203	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
204	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
205	The charge neutrality point in covalent semiconductor surfaces. Solid State Communications, 1974, 15, 587-589.	0.9	18
206	Surface states and ionicity. Physica Status Solidi (B): Basic Research, 1973, 57, 175-186.	0.7	16
207	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
208	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