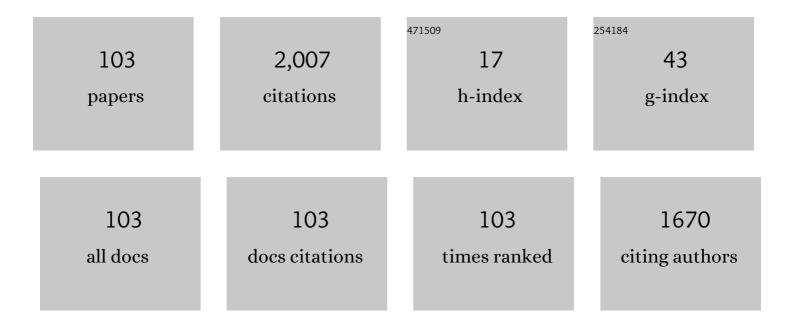
List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Electronic structure, chemical bonding, and optical properties of paraelectricBaTiO3. Physical Review B, 2000, 62, 8828-8834.	3.2	1,027
2	Structural and optical properties of paraelectric SrTiO3. Journal of Physics Condensed Matter, 2000, 12, 3325-3336.	1.8	71
3	Generalized augmented-space theorem for correlated disorder and the cluster-coherent-potential approximation. Physical Review B, 1993, 48, 17724-17731.	3.2	56
4	Mean-field theories of spin glasses. Physics Reports, 1984, 114, 1-98.	25.6	54
5	Augmented-space recursive method for the study of short-ranged ordering effects in binary alloys. Physical Review B, 1994, 50, 13267-13275.	3.2	52
6	Study of electronic structure and elastic properties of transition metal and actinide carbides. Physica B: Condensed Matter, 2005, 367, 6-18.	2.7	37
7	Electronic structure of random binary alloys. Journal of Physics Condensed Matter, 1996, 8, 1979-1996.	1.8	36
8	Magnetic properties of X–Pt (X = Fe,Co,Ni) alloy systems. Journal of Physics Condensed Matter, 2004, 16, 2317-2334.	1.8	33
9	A real-space study of random extended defects in solids: Application to disordered Stone–Wales defects in graphene. Physica E: Low-Dimensional Systems and Nanostructures, 2014, 61, 191-197.	2.7	29
10	The effects of local lattice distortion in non-isochoric alloys: CuPd and CuBe. Journal of Physics Condensed Matter, 1996, 8, 2915-2927.	1.8	26
11	Magnetic transition in NiPt alloy systems: experiment and theory. Journal of Magnetism and Magnetic Materials, 2005, 292, 234-240.	2.3	26
12	Electronic and optical properties of ZnIn2Te4. Physica B: Condensed Matter, 2004, 348, 382-390.	2.7	24
13	Augmented-space recursive technique for the analysis of alloy phase stability in random binary alloys. Physical Review B, 1995, 51, 3413-3421.	3.2	22
14	Structural, electronic and magnetic properties of Cr-doped (ZnTe)12 clusters. Journal of Magnetism and Magnetic Materials, 2009, 321, 235-240.	2.3	21
15	Exploring the role of electronic structure on photo-catalytic behavior of carbon-nitride polymorphs. Carbon, 2020, 168, 125-134.	10.3	19
16	Stabilization of ferromagnetism in Mn doped ZnO with C co-doping. Journal of Magnetism and Magnetic Materials, 2009, 321, 273-276.	2.3	18
17	High-pressure studies of MgTe using first-principle electronic-structure calculations. Physical Review B, 1999, 60, 11846-11847.	3.2	17
18	Study of phase stability in NiPt systems. Journal of Physics Condensed Matter, 2003, 15, 1029-1046.	1.8	17

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19	Electronic and magnetic properties of disordered Fe–Cr alloys using different electronic structure methods. Journal of Physics Condensed Matter, 2008, 20, 445201.	1.8	17
20	Nitrogen absorption and dissociation on small Tantalum clusters. Physica B: Condensed Matter, 2010, 405, 3940-3942.	2.7	17
21	STUDY OF SMALL METALLIC NANOPARTICLES: AN AB-INITIO FULL-POTENTIAL MUFFIN-TIN ORBITALS BASED MOLECULAR DYNAMICS STUDY OF SMALL Cu CLUSTERS. International Journal of Modern Physics B, 2003, 17, 2061-2075.	2.0	15
22	An augmented-space recursive method for the study of concentration profiles at CuNi alloy surfaces. Journal of Physics Condensed Matter, 1996, 8, 4125-4137.	1.8	13
23	Study of transition metal aluminide alloys. Journal of Physics Condensed Matter, 1997, 9, 3529-3541.	1.8	12
24	Effect of short-range order on electronic and magnetic properties of disordered Co-based alloys. Journal of Magnetism and Magnetic Materials, 2001, 234, 100-113.	2.3	12
25	Phase stability analysis in Fe–Pt and Co–Pt alloy systems: an augmented space study. Journal of Physics Condensed Matter, 2004, 16, 7247-7260.	1.8	12
26	Magnetism in NiFeMo disordered alloys: Experiment and theory. Physica B: Condensed Matter, 2010, 405, 4287-4293.	2.7	11
27	Optical properties of perovskite alkaline-earth titanates: a formulation. Journal of Physics Condensed Matter, 2002, 14, 3849-3863.	1.8	10
28	Phase stability and magnetism in NiPt and NiPd alloys. Journal of Physics Condensed Matter, 2004, 16, 5791-5802.	1.8	10
29	Electronic structure and optical properties of ordered compounds potassium tantalate and potassium niobate and their disordered alloys. Physica B: Condensed Matter, 2012, 407, 4615-4621.	2.7	10
30	Effect of short range ordering on the magnetism in disordered Fe:Al alloy. Journal of Alloys and Compounds, 2014, 613, 306-311.	5.5	10
31	Effects of chemical ordering and composition on the magnetic properties of disordered FeAl alloys. Journal of Alloys and Compounds, 2015, 639, 583-587.	5.5	10
32	Analysis of stochastic resonances in a two-dimensional quantum percolation model. Physical Review B, 1993, 47, 3097-3104.	3.2	8
33	Magnetic properties of Ni-Mo single-crystal alloys; theory and experiment. Journal of Physics Condensed Matter, 1998, 10, 11773-11780.	1.8	8
34	Symmetry reduction in the augmented space recursion formalism for random binary alloys. Journal of Physics Condensed Matter, 2004, 16, 1409-1423.	1.8	8
35	An augmented space approach to the study of random ternary alloys: I. Electronic structure with uncorrelated disorder and short ranged order. Journal of Physics Condensed Matter, 2009, 21, 195503.	1.8	8
36	Structure, reactivity and electronic properties of Mn doped clusters. Physica B: Condensed Matter, 2013, 419, 86-89.	2.7	8

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37	Conductance of disordered graphene sheets: A real space approach. Physica E: Low-Dimensional Systems and Nanostructures, 2015, 74, 347-354.	2.7	8
38	Cluster coherent-potential approximation in ternary random alloys. Physical Review B, 1988, 38, 3798-3802.	3.2	7
39	Self-consistent cluster coherent-potential approximation for the tight-binding linearized-muffin-tin-orbitals approach to random binary alloys. Physical Review B, 1993, 48, 8567-8571.	3.2	7
40	A phase-stability study of PdRh alloys. Journal of Physics Condensed Matter, 1997, 9, 2179-2186.	1.8	7
41	Magnetism in surfaces: an orbital-resolved study. Journal of Magnetism and Magnetic Materials, 2005, 285, 210-223.	2.3	7
42	AUGMENTED SPACE RECURSION CODE AND APPLICATION IN SIMPLE BINARY METALLIC ALLOY. International Journal of Modern Physics C, 2010, 21, 205-220.	1.7	7
43	A new class of coupled continuum equations for atomic growth on surfaces. Journal of Physics Condensed Matter, 1999, 11, 4367-4380.	1.8	6
44	Electrical and magnetic properties of AuFe alloys. Journal of Physics Condensed Matter, 1999, 11, 1833-1846.	1.8	6
45	Augmented-space recursion for partially disordered systems. Journal of Physics Condensed Matter, 2001, 13, 10149-10157.	1.8	6
46	A study of the convergence of the recursion method for metals and compounds. Journal of Physics Condensed Matter, 2002, 14, 3211-3219.	1.8	6
47	Optical properties of random alloys: application to CuAu and NiPt. Journal of Physics Condensed Matter, 2005, 17, 4559-4566.	1.8	6
48	Lattice thermal conductivity of disordered NiPd and NiPt alloys. Journal of Physics Condensed Matter, 2006, 18, 4589-4608.	1.8	6
49	A local-density approximation for the exchange energy functional for excited states: The band-gap problem. Physica B: Condensed Matter, 2009, 404, 1137-1142.	2.7	6
50	Ab initiostudy of the phonon spectrum, entropy and lattice heat capacity of disordered Re–W alloys. Journal of Physics Condensed Matter, 2012, 24, 375401.	1.8	6
51	Magnetism on rough surfaces of Fe, Co and Ni : An augmented space approach. Superlattices and Microstructures, 2015, 86, 173-185.	3.1	6
52	Effect of disorder on the optical response of NiPt and Ni3Pt alloys. Computational Materials Science, 2017, 140, 1-9.	3.0	6
53	Quantum percolation and breakdown. Absence of the delocalisation transition in two dimensions. Physica A: Statistical Mechanics and Its Applications, 1992, 186, 258-269.	2.6	5
54	Electronic structure of ternary random alloys. Journal of Physics Condensed Matter, 1997, 9, 6607-6618.	1.8	5

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55	TB-LMTO-AUGMENTED SPACE RECURSION FOR RANDOM BINARY ALLOYS: A TRACTABLE REPRESENTATION. Modern Physics Letters B, 1999, 13, 723-733.	1.9	5
56	Diffusion on the Cayley tree. Physical Review B, 1979, 19, 1926-1932.	3.2	4
57	Stochastic resonances and the mobility edge in a three-dimensional tight-binding Anderson model. Physical Review B, 1994, 50, 4867-4870.	3.2	4
58	Spin–orbit coupling: a recursion method approach. Physica B: Condensed Matter, 2004, 351, 63-70.	2.7	4
59	Optical conductivity in disordered alloys: an approach via the augmented space recursion. Journal of Physics Condensed Matter, 2005, 17, 6435-6443.	1.8	4
60	The study of electronic and magnetic properties of the partially disordered pseudo-Heusler alloy Co2Fe0.4Cr0.6Al: An augmented space approach. Journal of Magnetism and Magnetic Materials, 2007, 313, 243-252.	2.3	4
61	Tuning magnetism of MnO by doping with 2p elements. Journal of Magnetism and Magnetic Materials, 2010, 322, 253-256.	2.3	4
62	Magnetism in FeNiW disordered alloys: Experiment and theory. Journal of Magnetism and Magnetic Materials, 2010, 322, 3558-3564.	2.3	4
63	Fe _{3.3} Ni _{83.2} Mo _{13.5} : a likely candidate to show spin-glass behaviour at low temperatures. Journal of Physics Condensed Matter, 2011, 23, 106002.	1.8	4
64	Study of the effect of short ranged ordering on the magnetism in FeCr alloys. Journal of Magnetism and Magnetic Materials, 2014, 349, 156-158.	2.3	4
65	Study of the effect of magnetic ordering on order–disorder transitions in binary alloys. Journal of Magnetism and Magnetic Materials, 2014, 360, 15-20.	2.3	4
66	A SEMI-EMPIRICAL STUDY OF SMALL COPPER CLUSTERS. Modern Physics Letters B, 1996, 10, 211-221.	1.9	3
67	Calculations on Ni Clusters: An Equivalent Crystal Theory and LCAO Approach. International Journal of Modern Physics B, 1997, 11, 255-262.	2.0	3
68	Magnetism and magnetic asphericity in NiFe alloys. Physics Letters, Section A: General, Atomic and Solid State Physics, 1998, 246, 151-156.	2.1	3
69	Study of a Pair of Coupled Continuum Equations Modeling Surface Growth. International Journal of Modern Physics B, 2003, 17, 2981-2999.	2.0	3
70	Study of phase stability in a class of binary alloys using augmented space recursion based orbital peeling technique. Physica B: Condensed Matter, 2008, 403, 4111-4119.	2.7	3
71	STUDY OF THE ELECTRONIC AND STRUCTURAL PROPERTIES OF ZnO CLUSTERS. International Journal of Modern Physics B, 2010, 24, 3297-3309.	2.0	3
72	A study of magnetism in disordered Pt–Mn, Pd–Mn and Ni–Mn alloys: an augmented space recursion approach. Journal of Physics Condensed Matter, 2012, 24, 295501.	1.8	3

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73	Interesting magnetic behavior of Fe:Al disordered alloys. Physica B: Condensed Matter, 2014, 448, 226-228.	2.7	3
74	Electronic and magnetic properties at rough and sharp transition metal–metal interfaces: An augmented space approach. Journal of Magnetism and Magnetic Materials, 2015, 381, 422-432.	2.3	3
75	Disorder induced lifetime effects in binary disordered systems: A first principles formalism and an application to disordered graphene. International Journal of Modern Physics B, 2017, 31, 1750218.	2.0	3
76	Increased metallicity of Carbon nanotubes because of incorporation of extended Stone-Wales' defects: an ab-initio real space approach. Indian Journal of Physics, 2017, 91, 269-276.	1.8	3
77	Simple correction to bandgap problems in IV and III–V semiconductors: an improved, local first-principles density functional theory. Journal of Physics Condensed Matter, 2019, 31, 495502.	1.8	3
78	Percolation model, Sherrington-Kirkpatrick model and localization-delocalization model of spin glass transition: A comparative study. Physics Letters, Section A: General, Atomic and Solid State Physics, 1984, 100, 513-515.	2.1	2
79	Random walk and magnetization of spin clusters in spin glasses. American Journal of Physics, 1985, 53, 261-263.	0.7	2
80	Transmittance fluctuations and nonlinearity in random chains in the presence of applied electric fields. Physical Review B, 1994, 50, 5740-5743.	3.2	2
81	Magnetic properties of disordered CoCu alloys: a first-principles approach. Journal of Magnetism and Magnetic Materials, 2000, 214, 291-300.	2.3	2
82	ELECTRONIC STRUCTURE AND GROUND STATE PROPERTIES OF NON-MAGNETIC NiPt SYSTEMS. International Journal of Modern Physics B, 2003, 17, 4447-4456.	2.0	2
83	ELECTRONIC STRUCTURE AND MAGNETISM OF NICKEL THIN FILMS. International Journal of Modern Physics B, 2003, 17, 5839-5848.	2.0	2
84	Ordering in 3d–5d (CuAu) and segregation in 3d–4d (CuAg) systems. Physica B: Condensed Matter, 2005, 366, 55-61.	2.7	2
85	A real space approach to study the effect of off-diagonal disorder on superconductivity. Physica C: Superconductivity and Its Applications, 2010, 470, 640-647.	1.2	2
86	Study of optical response in disordered alloys using the generalized recursion in augmented space: Application to ferromagnetic FeCo alloy. Physica B: Condensed Matter, 2011, 406, 2121-2125.	2.7	2
87	Effect of donor (I) or acceptor (N) co-doping on Cr doped (ZnTe)12 clusters. Journal of Magnetism and Magnetic Materials, 2011, 323, 166-174.	2.3	2
88	Magnetic transitions in Ni1â^'xMox and Ni1â^'xWx disordered alloys. Journal of Magnetism and Magnetic Materials, 2011, 323, 2478-2482.	2.3	2
89	Internal geometry of delocalised and localised states in a one-dimensional, continuous quasi-periodic potential. Physica A: Statistical Mechanics and Its Applications, 1992, 189, 390-402.	2.6	1
90	A Molecular Full-Potential LMTO Calculation for Copper Clusters. Modern Physics Letters B, 1997, 11, 161-169.	1.9	1

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91	Effect of alloying on the electronic structure and magnetic properties of Fe, Co and Ni with Au and Ag. Bulletin of Materials Science, 2003, 26, 199-205.	1.7	1
92	DETERMINATION OF THE GROUND-STATE GEOMETRIES OF COPPER CLUSTERS BY SIMULATED ANNEALING WITHIN AN EQUIVALENT CRYSTAL APPROACH. International Journal of Modern Physics B, 2003, 17, 273-279.	2.0	1
93	An augmented space approach to the study of random ternary alloys: II. Optical response. Journal of Physics Condensed Matter, 2009, 21, 195504.	1.8	1
94	AN AUGMENTED SPACE-BASED CLUSTER COHERENT POTENTIAL APPROXIMATION: APPLICATION TO CuAu AND NIAI ALLOYS. International Journal of Modern Physics B, 2011, 25, 735-745.	2.0	1
95	Study of Spin Glass Behavior in Disordered PtxMn1â^'x Alloys: An Augmented Space Recursion Approach. Advanced Science Letters, 2015, 21, 2681-2687.	0.2	1
96	Multichannel scattering in a 1D disordered chain. Waves in Random and Complex Media, 1993, 3, 1-8.	1.5	0
97	STUDY OF DOPING EFFECT ON THE ELECTRONIC STRUCTURE OF Sr1â^'xLaxTiO3. Modern Physics Letters B, 1996, 10, 505-514.	1.9	0
98	Determination of the Ground State Geometries of Copper Clusters by Simulated Annealing. International Journal of Modern Physics B, 1997, 11, 2333-2341.	2.0	0
99	OPTICAL PROPERTIES OF RANDOM III–V TERNARY SEMICONDUCTING ALLOYS. International Journal of Modern Physics B, 2002, 16, 3681-3695.	2.0	0
100	STUDY OF A PAIR OF COUPLED CONTINUUM EQUATIONS MODELING SURFACE GROWTH: INTERPLAY BETWEEN SURFACE DIFFUSION, DESORPTION-ACCRETION AND SCHWOEBEL BACK DIFFUSION. International Journal of Modern Physics B, 2004, 18, 1549-1569.	2.0	0
101	Study of phase stability of MnCr using the augmented space recursion based orbital peeling technique. Physica B: Condensed Matter, 2009, 404, 1979-1983.	2.7	0
102	Study of disorder–order transitions in FexAl1â^'x binary alloys using the augmented space recursion based orbital peeling technique. Physica B: Condensed Matter, 2011, 406, 3810-3815.	2.7	0
103	Electronic and magnetic properties of disordered AuCr alloys: A first-principles study. Journal of Magnetism and Magnetic Materials, 2013, 332, 199-204.	2.3	0