

Julio A Alonso

List of Publications by Year in descending order

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406
papers

10,586
citations

41344

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51608

86
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docs citations

414
times ranked

7205
citing authors

#	ARTICLE	IF	CITATIONS
1	Electronic and Atomic Structure, and Magnetism of Transition-Metal Clusters. <i>Chemical Reviews</i> , 2000, 100, 637-678.	47.7	495
2	Improved Charge Transfer at Carbon Nanotube Electrodes. <i>Advanced Materials</i> , 1999, 11, 154-157.	21.0	493
3	Nonlocal approximation to the exchange potential and kinetic energy of an inhomogeneous electron gas. <i>Physical Review B</i> , 1978, 17, 3735-3743.	3.2	288
4	Density functional study of adsorption of molecular hydrogen on graphene layers. <i>Journal of Chemical Physics</i> , 2000, 112, 8114-8119.	3.0	261
5	Enhancement of hydrogen physisorption on graphene and carbon nanotubes by Li doping. <i>Journal of Chemical Physics</i> , 2005, 123, 204721.	3.0	247
6	Selective Propene Epoxidation on Immobilized Au ₆ Clusters: The Effect of Hydrogen and Water on Activity and Selectivity. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 1467-1471.	13.8	246
7	Interaction of molecular and atomic hydrogen with (5,5) and (6,6) single-wall carbon nanotubes. <i>Journal of Chemical Physics</i> , 2002, 117, 2281-2288.	3.0	198
8	Ab Initio Photoabsorption Spectra and Structures of Small Semiconductor and Metal Clusters. <i>Physical Review Letters</i> , 1996, 77, 247-250.	7.8	193
9	Interaction of lithium with graphene: An ab initio study. <i>Physical Review B</i> , 2004, 70, .	3.2	171
10	The optimum average nanopore size for hydrogen storage in carbon nanoporous materials. <i>Carbon</i> , 2007, 45, 2649-2658.	10.3	168
11	Determination of the glass-forming concentration range in binary alloys from a semiempirical theory: Application to Zr-based alloys. <i>Physical Review B</i> , 1987, 36, 3716-3722.	3.2	137
12	Molecular-dynamics study of the binding energy and melting of transition-metal clusters. <i>Physical Review B</i> , 1993, 48, 8253-8262.	3.2	132
13	Excited states dynamics in time-dependent density functional theory. <i>European Physical Journal D</i> , 2004, 28, 211-218.	1.3	126
14	Structural and dynamical properties of Cu ₂ Au bimetallic clusters. <i>Journal of Chemical Physics</i> , 1996, 104, 1056-1066.	3.0	122
15	Theoretical study of the transition from planar to three-dimensional structures of palladium clusters supported on graphene. <i>Physical Review B</i> , 2010, 81, .	3.2	122
16	Size-dependent selectivity and activity of silver nanoclusters in the partial oxidation of propylene to propylene oxide and acrolein: A joint experimental and theoretical study. <i>Catalysis Today</i> , 2011, 160, 116-130.	4.4	115
17	Novel Polygonized Single-Wall Carbon Nanotube Bundles. <i>Physical Review Letters</i> , 2001, 86, 3056-3059.	7.8	113
18	Prediction of amorphous alloy formation by ion beam mixing. <i>Solid State Communications</i> , 1983, 48, 765-767.	1.9	106

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19	Ab initio study of B32 clusters: competition between spherical, quasiplanar and tubular isomers. <i>Chemical Physics Letters</i> , 1999, 311, 21-28.	2.6	105
20	Adsorption and Dissociation of Molecular Hydrogen on Palladium Clusters Supported on Graphene. <i>Journal of Physical Chemistry C</i> , 2012, 116, 21179-21189.	3.1	104
21	Synthesis of fullerenes. <i>Journal of Physical Organic Chemistry</i> , 2013, 26, 526-539.	1.9	101
22	Molecular-dynamics study of the structures, binding energies, and melting of clusters of fcc transition and noble metals using the Voter and Chen version of the embedded-atom model. <i>Physical Review B</i> , 1994, 49, 8495-8498.	3.2	95
23	From graphene oxide to pristine graphene: revealing the inner workings of the full structural restoration. <i>Nanoscale</i> , 2015, 7, 2374-2390.	5.6	95
24	Construction of free-energy diagrams of amorphous alloys. <i>Nuovo Cimento Della Societa Italiana Di Fisica D - Condensed Matter, Atomic, Molecular and Chemical Physics, Biophysics</i> , 1990, 12, 587-595.	0.4	93
25	A non-local approximation to the exchange energy of the non-homogeneous electron gas. <i>Solid State Communications</i> , 1977, 24, 135-138.	1.9	88
26	Electronic and atomic structure of Na, Mg, Al and Pb clusters. <i>Zeitschrift für Physik D-Atoms Molecules and Clusters</i> , 1988, 11, 163-174.	1.0	85
27	Glass formation in ternary transition metal alloys. <i>Journal of Physics Condensed Matter</i> , 1990, 2, 6245-6250.	1.8	85
28	Density functional calculations of hydrogen adsorption on boron nanotubes and boron sheets. <i>Nanotechnology</i> , 2006, 17, 778-785.	2.6	83
29	Prediction of solid solubility in alloys. <i>Physical Review B</i> , 1980, 22, 5583-5589.	3.2	74
30	Magnetic moments of Ni clusters. <i>Physical Review B</i> , 1998, 57, 12469-12475.	3.2	73
31	Palladium Clusters Anchored on Graphene Vacancies and Their Effect on the Reversible Adsorption of Hydrogen. <i>Journal of Physical Chemistry C</i> , 2014, 118, 5081-5090.	3.1	73
32	Chemical Properties of Small Au Clusters: An Analysis of the Local Site Reactivity. <i>Journal of Physical Chemistry C</i> , 2007, 111, 6668-6677.	3.1	72
33	Orbital-free molecular dynamics simulations of melting in Na8 and Na20: Melting in steps. <i>Journal of Chemical Physics</i> , 1999, 111, 6026-6035.	3.0	71
34	Structure and bonding in small neutral alkali halide clusters. <i>Physical Review B</i> , 1997, 56, 15353-15360.	3.2	69
35	Simulation of the hydrogen storage in nanoporous carbons with different pore shapes. <i>International Journal of Hydrogen Energy</i> , 2011, 36, 10748-10759.	7.1	65
36	Molecular-dynamics study of the structural rearrangements of Cu and Au clusters softly deposited on a Cu(001) surface. <i>Physical Review B</i> , 1999, 60, 2908-2915.	3.2	59

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37	Stability and magic numbers of hetero-atomic clusters of simple metals. <i>Physica B: Condensed Matter</i> , 1988, 154, 73-81.	2.7	58
38	Interaction and concerted diffusion of lithium in a (5,5) carbon nanotube. <i>Physical Review B</i> , 2008, 78, .	3.2	58
39	Molecular-dynamics study of the structure, binding energy, and melting of small clusters of fullerene molecules using Girifalco's spherical model. <i>Physical Review B</i> , 1994, 49, 8491-8494.	3.2	56
40	Melting in Large Sodium Clusters: An Orbital-Free Molecular Dynamics Study. <i>Journal of Physical Chemistry B</i> , 2001, 105, 2386-2392.	2.6	55
41	Can optical spectroscopy directly elucidate the ground state of C ₂₀ ? <i>Journal of Chemical Physics</i> , 2002, 116, 1930-1933.	3.0	55
42	Analysis of the bonding and reactivity of H and the Al ₁₃ cluster using density functional concepts. <i>Journal of Chemical Physics</i> , 2003, 119, 5128-5141.	3.0	55
43	Controlling the Adsorption of Carbon Monoxide on Platinum Clusters by Dopant-Induced Electronic Structure Modification. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 11059-11063.	13.8	55
44	Density functional study of molecular hydrogen coverage on carbon nanotubes. <i>Computational Materials Science</i> , 2006, 35, 238-242.	3.0	54
45	Class formation in binary alloy systems: A prediction of the composition range. <i>Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties</i> , 1988, 58, 79-92.	0.6	53
46	Hydrogen storage in pure and Li-doped carbon nanopores: Combined effects of concavity and doping. <i>Journal of Chemical Physics</i> , 2008, 128, 144704.	3.0	53
47	Patching and Tearing Single-Wall Carbon-Nanotube Ropes into Multiwall Carbon Nanotubes. <i>Physical Review Letters</i> , 2002, 89, 255501.	7.8	52
48	Electronegativity scale for metals. <i>Physical Review B</i> , 1979, 19, 3889-3895.	3.2	51
49	Is Spillover Relevant for Hydrogen Adsorption and Storage in Porous Carbons Doped with Palladium Nanoparticles?. <i>Journal of Physical Chemistry C</i> , 2016, 120, 17357-17364.	3.1	51
50	Embedded-atom method applied to bimetallic clusters: The Cu-Ni and Cu-Pd systems. <i>Physical Review B</i> , 1994, 49, 16649-16658.	3.2	50
51	Semiempirical Theory of Solid Solubility in Transition Metal Alloys. <i>Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences</i> , 1985, 40, 1199-1205.	1.5	49
52	Theoretical study of icosahedral Ni clusters within the embedded-atom method. <i>Physical Review B</i> , 1996, 54, 5961-5969.	3.2	49
53	Hydrogen storage capacities of nanoporous carbon calculated by density functional and MÅller-Plesset methods. <i>Physical Review B</i> , 2008, 78, .	3.2	49
54	Geometrical effects on the magnetism of small Ni clusters. <i>Physical Review B</i> , 1997, 55, 13279-13282.	3.2	48

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55	Influence of nonlocal exchange-correlation effects on the response properties of simple metal clusters. <i>Physical Review B</i> , 1992, 46, 4891-4898.	3.2	47
56	Density-functional calculation of the fragmentation of doubly ionized spherical jelliumlike metallic microparticles. <i>Physical Review B</i> , 1986, 34, 2152-2157.	3.2	46
57	Prediction of the glass formation range of transition metal alloys. <i>Journal of Physics F: Metal Physics</i> , 1988, 18, 2149-2157.	1.6	46
58	Response properties of sodium clusters within a jellium-like model with finite surface thickness. <i>Zeitschrift für Physik D-Atoms Molecules and Clusters</i> , 1991, 19, 93-96.	1.0	45
59	Competition between molecular and dissociative adsorption of hydrogen on palladium clusters deposited on defective graphene. <i>RSC Advances</i> , 2015, 5, 47945-47953.	3.6	45
60	Glass-forming ability in binary alloys produced by ion beam mixing and by laser quenching. <i>Materials Letters</i> , 1986, 4, 316-319.	2.6	44
61	A theoretical study of the static structure and thermodynamics of liquid lithium. <i>Journal of Physics Condensed Matter</i> , 1993, 5, 4283-4298.	1.8	44
62	Clusters and layers of C ₆₀ molecules supported on a graphite substrate. <i>Physical Review B</i> , 1997, 55, 7190-7197.	3.2	44
63	Weighted-density exchange and local-density Coulomb correlation energy functionals for finite systems: Application to atoms. <i>Physical Review A</i> , 1993, 48, 4197-4212.	2.5	42
64	Half-metallic finite zigzag single-walled carbon nanotubes from first principles. <i>Physical Review B</i> , 2008, 78, .	3.2	42
65	An Application of Non-Extensive Statistical Mechanics to Nanosystems. <i>Journal of Computational and Theoretical Nanoscience</i> , 2004, 1, 227-229.	0.4	42
66	Charge transfer and heat of formation in CsCl intermetallic compounds. <i>Journal of Physics and Chemistry of Solids</i> , 1978, 39, 79-87.	4.0	41
67	Nonlocality and the energy of alloy formation. <i>Journal of Physics F: Metal Physics</i> , 1978, 8, 2455-2460.	1.6	40
68	Optical to ultraviolet spectra of sandwiches of benzene and transition metal atoms: Time dependent density functional theory and many-body calculations. <i>Journal of Chemical Physics</i> , 2010, 132, 044314.	3.0	40
69	Scattering of a proton with the Li ₄ cluster: Non-adiabatic molecular dynamics description based on time-dependent density-functional theory. <i>Chemical Physics</i> , 2012, 399, 130-134.	1.9	40
70	Adsorption and growth of palladium clusters on graphdiyne. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 19094-19102.	2.8	40
71	Coulomb barriers in the dissociation of doubly charged clusters. <i>Physical Review B</i> , 1991, 43, 9459-9466.	3.2	39
72	Structural and thermal properties of silicon-doped fullerenes. <i>Journal of Chemical Physics</i> , 2003, 119, 1127-1135.	3.0	39

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73	Structural and thermal stability of narrow and short carbon nanotubes and nanostrips. Carbon, 2005, 43, 1371-1377.	10.3	38
74	Tight binding molecular dynamics studies of boron assisted nanotube growth. Journal of Chemical Physics, 2000, 113, 3814-3821.	3.0	37
75	Simulated porosity and electronic structure of nanoporous carbons. Journal of Chemical Physics, 2011, 135, 104706.	3.0	37
76	On the Factors Controlling Glass Forming Ability of Metallic Alloys Formed by Fast Liquid Quenching. Physica Status Solidi A, 1984, 81, 55-61.	1.7	35
77	Ab initio calculations of structures and stabilities of $(\text{Na})_n\text{Na}^+$ and $(\text{Cs})_n\text{Cs}^+$ cluster ions. Physical Review B, 1998, 58, 9972-9979.	3.2	35
78	Comparative ab initio studies of small tin and lead clusters. Annalen Der Physik, 1998, 7, 107-119.	2.4	35
79	Theoretical study of the stability of AgN_2^+ , AgN , AgN^+ and NaN^+ clusters as a function of size using the density functional formalism. Chemical Physics, 1988, 120, 239-247.	1.9	34
80	Theoretical study of the photoabsorption spectrum of Na_8 , Na_{20} , Cs_8 , and Cs_{100} clusters. Physical Review B, 1992, 45, 13657-13663.	3.2	34
81	Calculation of metastable free-energy diagrams and glass formation in the Mg-Cu-Y alloy and its boundary binaries using the Miedema model. Intermetallics, 2006, 14, 297-307.	3.9	34
82	Adsorption of Lithium on Finite Graphitic Clusters. Journal of Physical Chemistry C, 2009, 113, 939-941.	3.1	34
83	The Atomic Size-Mismatch Contribution to the Enthalpy of Formation of Concentrated Substitutional Metallic Solid Solutions. Physica Status Solidi A, 1984, 85, 423-428.	1.7	33
84	Interaction of Molecular and Atomic Hydrogen With Single-Wall Carbon Nanotubes. IEEE Nanotechnology Magazine, 2004, 3, 304-310.	2.0	33
85	Simulating the thermal behavior and fragmentation mechanisms of exohedral and substitutional silicon-doped C_{60} . Journal of Chemical Physics, 2005, 123, 204323.	3.0	33
86	The interaction of sulfuric acid with graphene and formation of adsorbed crystals. Nanotechnology, 2007, 18, 485705.	2.6	33
87	Magic numbers of sodium clusters. Solid State Communications, 1986, 57, 85-88.	1.9	31
88	Simulation of hydrogen storage in porous carbons. Journal of Materials Research, 2013, 28, 589-604.	2.6	31
89	Searching for DFT-based methods that include dispersion interactions to calculate the physisorption of H_2 on benzene and graphene. Journal of Chemical Physics, 2017, 146, 214104.	3.0	30
90	Equivalence of ionization potential and magnitude of chemical potential in Hartree-Fock theory of atoms. Journal of Chemical Physics, 1983, 78, 1382-1383.	3.0	29

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91	Surface plasmon excitations in C ₆₀ , C ₆₀ K and C ₆₀ H clusters. <i>Physica B: Condensed Matter</i> , 1993, 183, 247-263.	2.7	29
92	Thermal road for fullerene annealing. <i>Chemical Physics Letters</i> , 1997, 273, 367-370.	2.6	29
93	Melting behavior of large disordered sodium clusters. <i>European Physical Journal D</i> , 2001, 15, 221-227.	1.3	29
94	Surface energy of liquid metals at the melting temperature related to bulk liquid structure. <i>Surface Science</i> , 1985, 160, 509-516.	1.9	28
95	Deformations and Thermal Stability of Carbon Nanotube Ropes. <i>IEEE Nanotechnology Magazine</i> , 2004, 3, 230-236.	2.0	27
96	Atomic structure and segregation in alkali-metal heteroclusters. <i>Physical Review B</i> , 1990, 42, 5000-5008.	3.2	26
97	A molecular dynamics study of the evaporation of small argon clusters. <i>Physica B: Condensed Matter</i> , 1992, 179, 273-277.	2.7	25
98	Theoretical Models for the Optical Properties of Clusters and Nanostructures. <i>International Journal of Modern Physics B</i> , 1997, 11, 2727-2776.	2.0	25
99	Theoretical Study of Small (Na) _n Clusters. <i>Journal of Physical Chemistry B</i> , 1997, 101, 5944-5950.	2.6	25
100	Simulating the thermal stability and phase changes of small carbon clusters and fullerenes. <i>European Physical Journal D</i> , 1999, 6, 221-233.	1.3	25
101	Adsorption of hydrogen on normal and pentaheptite single wall carbon nanotubes. <i>European Physical Journal D</i> , 2005, 34, 279-282.	1.3	25
102	Theoretical study of molecular hydrogen clusters. <i>European Physical Journal D</i> , 2007, 43, 61-64.	1.3	25
103	Controlling the Adsorption of Carbon Monoxide on Platinum Clusters by Dopant-Induced Electronic Structure Modification. <i>Angewandte Chemie</i> , 2016, 128, 11225-11229.	2.0	25
104	Steric and chemical effects on the hydrogen adsorption and dissociation on free and graphene-supported palladium clusters. <i>Computational and Theoretical Chemistry</i> , 2017, 1107, 23-29.	2.5	25
105	Long-Range van der Waals Interactions in Density Functional Theory. <i>Theoretical Chemistry Accounts</i> , 2007, 117, 467-472.	1.4	24
106	Gradient corrections in the energy density functional. <i>Chemical Physics Letters</i> , 1978, 53, 190-191.	2.6	23
107	Prediction of solid solubility in alloys. Application to noble metal based alloys. <i>Acta Metallurgica</i> , 1982, 30, 105-107.	2.1	23
108	Conditions for the self-assembling of cluster materials. <i>Nanotechnology</i> , 2002, 13, 253-257.	2.6	23

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109	Tailoring structural and electronic properties of RuO ₂ nanotubes: a many-body approach and electronic transport. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 14715.	2.8	23
110	Charge transfer in binary alloys and to impurities in iron. <i>Journal of Physics and Chemistry of Solids</i> , 1977, 38, 869-876.	4.0	22
111	Atomic electronegativity from density functional theory. <i>Journal of Chemical Physics</i> , 1980, 73, 1313-1319.	3.0	22
112	Dissociation channels of Na ⁿ⁺ clusters (3 ≤ n ≤ 37). <i>Physical Review B</i> , 1990, 41, 5595-5601.	3.2	22
113	Theoretical study of the binding of Na clusters encapsulated in the C ₂₄₀ fullerene. <i>Physical Review B</i> , 1996, 53, 16059-16066.	3.2	22
114	Metastable phase stability in the ternary Zr-Fe-Cr system. <i>Intermetallics</i> , 2002, 10, 205-216.	3.9	22
115	Nonthermal fragmentation of C ₆₀ . <i>Chemical Physics Letters</i> , 2002, 352, 154-162.	2.6	22
116	Buckling in boron sheets and nanotubes. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2006, 203, 1105-1110.	1.8	22
117	First-Principles Structural and Electronic Characterization of Ordered SiO ₂ Nanowires. <i>Journal of Physical Chemistry C</i> , 2012, 116, 18973-18982.	3.1	22
118	Electronic and cohesive properties of small sodium particles. <i>Surface Science</i> , 1983, 127, 367-376.	1.9	21
119	Structure and energetics of Na ⁿ⁺ Li _x (n ≤ 21) clusters. <i>Physical Review B</i> , 1990, 41, 5636-5642.	3.2	21
120	Evolution of the structural stability of large Cu, Ni, Pd, and Ag clusters with size: An analysis within the embedded atom method. <i>Journal of Cluster Science</i> , 1994, 5, 287-302.	3.3	21
121	Tight-binding study of the ionization of iron clusters. <i>Physical Review B</i> , 1996, 54, 3003-3006.	3.2	21
122	Calculation of the Band Gap Energy and Study of Cross Luminescence in Alkaline-Earth Dihalide Crystals. <i>Journal of the Physical Society of Japan</i> , 1999, 68, 2829-2835.	1.6	21
123	Competition between Palladium Clusters and Hydrogen to Saturate Graphene Vacancies. <i>Journal of Physical Chemistry C</i> , 2017, 121, 10843-10850.	3.1	21
124	Optical Properties of Nanostructures from Time-Dependent Density Functional Theory. <i>Journal of Computational and Theoretical Nanoscience</i> , 2004, 1, 231-255.	0.4	21
125	Theoretical study of (NaCl) _n clusters. <i>Physica B: Condensed Matter</i> , 1995, 212, 329-342.	2.7	20
126	On the electronegativity parameters of the theory of heats of alloy formation. <i>Solid State Communications</i> , 1979, 31, 9-14.	1.9	19

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127	Immersion of hydrogen atoms in aluminium clusters. Zeitschrift für Physik D-Atoms Molecules and Clusters, 1989, 13, 269-275.	1.0	19
128	Density functional study of neutral and charged sodium and lead clusters in the jellium model. Physica B: Condensed Matter, 1990, 167, 19-32.	2.7	19
129	Non-local exchange and local Coulomb correlation energy density functionals for finite many-electron systems. Chemical Physics Letters, 1993, 205, 348-353.	2.6	19
130	Nonlocal exchange and kinetic energy density functionals with correct asymptotic behavior for electronic systems. International Journal of Quantum Chemistry, 1994, 49, 171-184.	2.0	19
131	Theoretical study of the adsorption of hydrogen on cobalt clusters. Physical Chemistry Chemical Physics, 2018, 20, 21163-21176.	2.8	19
132	Polarizabilities of aluminium clusters. Solid State Communications, 1990, 75, 139-142.	1.9	18
133	Electronic structure of negatively charged aluminium clusters. Physica B: Condensed Matter, 1991, 168, 32-38.	2.7	18
134	Inhomogeneous contraction of interatomic distances in metallic clusters: Calculations for Cs _n and O Cs _n . Physical Review B, 1991, 44, 7273-7282.	3.2	18
135	Nonmetal-metal transition in Ni clusters. Solid State Communications, 1997, 104, 635-639.	1.9	18
136	Computer simulation of cluster assembling. International Journal of Quantum Chemistry, 2002, 86, 226-238.	2.0	18
137	New insights on the reaction mechanisms for CO oxidation on Au catalysts. Chemical Physics Letters, 2009, 468, 201-204.	2.6	18
138	Semi-empirical study of metastable alloys produced by ion implantation in metals. Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties, 1982, 45, 713-722.	0.6	17
139	Electronegativity of positive ions in the density functional theory. Zeitschrift für Physik A, 1982, 305, 31-37.	1.4	17
140	Dissociation of doubly charged alkali metal clusters. Annalen Der Physik, 1992, 504, 270-280.	2.4	17
141	Ab initio calculations for mixed clusters of lead and alkali elements, and implications for the structure of their solid and liquid alloys. Chemical Physics Letters, 1998, 289, 451-456.	2.6	17
142	Charging mechanism for the bond elongation observed in suspended chains of gold atoms. Physical Review B, 2005, 72, .	3.2	17
143	Ab initio studies of propene epoxidation on oxidized silver surfaces. Physical Chemistry Chemical Physics, 2014, 16, 26546-26552.	2.8	17
144	Absence of spillover of hydrogen adsorbed on small palladium clusters anchored to graphene vacancies. Applied Surface Science, 2021, 559, 149835.	6.1	17

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145	Volume of formation and electronic configuration in dilute alloys. Journal of Physics and Chemistry of Solids, 1979, 40, 449-455.	4.0	16
146	Electron density in simple metals. Relation to bulk and surface properties. Journal of Physics F: Metal Physics, 1980, 10, 1995-2008.	1.6	16
147	Density functional-pseudopotential approach to the heat of formation in alloys of alkali metals. Journal of Physics F: Metal Physics, 1981, 11, 2045-2053.	1.6	16
148	Theory of the heat of formation in homovalent disordered solid alloys of non-transition metals. Journal of Physics F: Metal Physics, 1982, 12, 1907-1921.	1.6	16
149	Semiempirical theory of solid solubility in metallic alloys. Physica Status Solidi A, 1983, 76, 675-682.	1.7	16
150	Assembling of hydrogenated aluminum clusters. European Physical Journal D, 2001, 16, 285-288.	1.3	16
151	Amorphization in GdCo alloys and multilayers. Journal of Physics Condensed Matter, 2002, 14, 8913-8924.	1.8	16
152	Correlation energies of light atoms related to pairing between antiparallel spin electrons. Journal of Physics B: Atomic, Molecular and Optical Physics, 2003, 36, 2695-2705.	1.5	16
153	Photoabsorption spectra of Ti ₈ C ₁₂ metallocarbohedrynes: Theoretical spectroscopy within time-dependent density functional theory. Journal of Chemical Physics, 2006, 125, 074311.	3.0	16
154	Lifetime of electronic excitations in metal nanoparticles. New Journal of Physics, 2010, 12, 053023.	2.9	16
155	One-Electron Energy Eigenvalues in the Weighted-Density Approximation to Exchange and Correlation. Europhysics Letters, 1991, 14, 323-329.	2.0	15
156	Fragmentation and Coulomb explosion of deuterium clusters by the interaction with intense laser pulses. Physical Review A, 2005, 72, .	2.5	15
157	Electronic and atomic structure of the Al _n H _{n+2} clusters. Journal of Chemical Physics, 2008, 129, 074306.	3.0	15
158	Surfactant effect of sulfuric acid on the exfoliation of bilayer graphene. Physical Review B, 2011, 84, .	3.2	15
159	Adsorption and dissociation of molecular hydrogen on the edges of graphene nanoribbons. Journal of Nanoparticle Research, 2012, 14, 1.	1.9	15
160	Cathodoluminescence in single and multiwall WS ₂ nanotubes: Evidence for quantum confinement and strain effect. Applied Physics Reviews, 2020, 7, .	11.3	15
161	Ultra-stable nanofluid containing Functionalized-Carbon Dots for heat transfer enhancement in Water/Ethylene glycol systems: Experimental and DFT studies. Energy Reports, 2021, 7, 4222-4234.	5.1	15
162	Magnetic moments of. European Physical Journal D, 1999, 6, 235.	1.3	15

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163	Charge transfer in simple metallic alloys. <i>Journal De Physique</i> , 1983, 44, 229-234.	1.8	14
164	X-ray scattering factors of crystalline silicon and germanium from A bond charge model. <i>Journal of Physics and Chemistry of Solids</i> , 1988, 49, 1013-1017.	4.0	14
165	Electronic structure of CsN and CsNO clusters. <i>Solid State Communications</i> , 1989, 71, 591-594.	1.9	14
166	Theoretical study of NaCl clusters. <i>Zeitschrift für Physik D-Atoms Molecules and Clusters</i> , 1993, 26, 213-215.	1.0	14
167	Nonlocal exchange- and kinetic-energy density functionals for electronic systems: Application to atoms and ions. <i>Physical Review A</i> , 1993, 47, 1804-1810.	2.5	14
168	Self-consistent local-density approximation with model Coulomb pair-correlation functions for electronic systems. <i>Physical Review A</i> , 1993, 47, 1811-1816.	2.5	14
169	Deformed-jellium model for the fission of multiply charged simple metal clusters. <i>Physical Review B</i> , 1995, 51, 1897-1901.	3.2	14
170	Interaction of the Charged Deuterium Cluster D ₃ ⁺ with Femtosecond Laser Pulses. <i>Journal of Physical Chemistry C</i> , 2007, 111, 17765-17772.	3.1	14
171	Modeling of the functionalization of single-wall carbon nanotubes towards its solubilization in an aqueous medium. <i>European Physical Journal D</i> , 2011, 61, 381-388.	1.3	14
172	Ab initio studies of ethanol dehydrogenation at binary AuPd nanocatalysts. <i>Molecular Catalysis</i> , 2018, 449, 8-13.	2.0	14
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