Oguz Glseren

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105
papers

4,393
citations

h-index

65
g-index

107
ext. papers

4,740
ext. citations

4
avg, IF

L-index

#	Paper	IF	Citations
105	Giant anharmonicity and nonlinear electron-phonon coupling in MgB2: a combined first-principles calculation and neutron scattering study. <i>Physical Review Letters</i> , 2001 , 87, 037001	7.4	328
104	Systematic study of adsorption of single atoms on a carbon nanotube. <i>Physical Review B</i> , 2003 , 67,	3.3	284
103	Noncrystalline Structures of Ultrathin Unsupported Nanowires. <i>Physical Review Letters</i> , 1998 , 80, 3775-	·3 <i>7</i> .748	253
102	Elasticity of iron at the temperature of the Earth's inner core. <i>Nature</i> , 2001 , 413, 57-60	50.4	220
101	Systematic ab initio study of curvature effects in carbon nanotubes. <i>Physical Review B</i> , 2002 , 65,	3.3	202
100	Mo2C as a high capacity anode material: a first-principles study. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 6029-6035	13	179
99	Tunable adsorption on carbon nanotubes. <i>Physical Review Letters</i> , 2001 , 87, 116802	7.4	169
98	Accuracy of equation-of-state formulations. American Mineralogist, 2000, 85, 338-344	2.9	135
97	Premelting of thin wires. <i>Physical Review B</i> , 1995 , 51, 7377-7380	3.3	131
96	Added row model of TiO2(110)1 ^I 2. <i>Physical Review B</i> , 1998 , 58, 1586-1589	3.3	121
95	MXenes/graphene heterostructures for Li battery applications: a first principles study. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 2337-2345	13	119
94	Reversible band-gap engineering in carbon nanotubes by radial deformation. <i>Physical Review B</i> , 2002 , 65,	3.3	116
93	High-pressure thermoelasticity of body-centered-cubic tantalum. <i>Physical Review B</i> , 2002 , 65,	3.3	109
92	Energetics and Electronic Structures of Individual Atoms Adsorbed on Carbon Nanotubes. <i>Journal of Physical Chemistry B</i> , 2004 , 108, 575-582	3.4	108
91	Oxygenation of carbon nanotubes: Atomic structure, energetics, and electronic structure. <i>Physical Review B</i> , 2003 , 67,	3.3	106
90	Pressure-induced interlinking of carbon nanotubes. <i>Physical Review B</i> , 2000 , 62, 12648-12651	3.3	104
89	Effects of hydrogen adsorption on single-wall carbon nanotubes: Metallic hydrogen decoration. <i>Physical Review B</i> , 2002 , 66,	3.3	99

88	Exohydrogenated single-wall carbon nanotubes. <i>Physical Review B</i> , 2001 , 64,	3.3	94
87	Functionalized carbon nanotubes and device applications. <i>Journal of Physics Condensed Matter</i> , 2004 , 16, R901-R960	1.8	90
86	Thermal equation of state of tantalum. <i>Physical Review B</i> , 2001 , 63,	3.3	76
85	Pentagonal nanowires: A first-principles study of the atomic and electronic structure. <i>Physical Review B</i> , 2002 , 65,	3.3	7 ²
84	First principles study of structural phase stability of wide-gap semiconductors MgTe, MgS and MgSe. <i>Computational Materials Science</i> , 2009 , 47, 593-598	3.2	63
83	Alkali Metal Intercalation in MXene/Graphene Heterostructures: A New Platform for Ion Battery Applications. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 727-734	6.4	60
82	Electronic structure of the contact between carbon nanotube and metal electrodes. <i>Applied Physics Letters</i> , 2003 , 83, 3180-3182	3.4	52
81	Variable and reversible quantum structures on a single carbon nanotube. <i>Physical Review B</i> , 2000 , 62, R16345-R16348	3.3	49
80	Adsorption of Pt and Bimetallic PtAu Clusters on the Partially Reduced Rutile (110) TiO2 Surface: A First-Principles Study. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 5735-5746	3.8	36
79	First principles force field for metallic tantalum. <i>Modelling and Simulation in Materials Science and Engineering</i> , 2004 , 12, S445-S459	2	34
78	Understanding the plasmonic properties of dewetting formed Ag nanoparticles for large area solar cell applications. <i>Optics Express</i> , 2013 , 21, 18344-53	3.3	33
77	Theoretical analysis of STM experiments at rutile TiO2 surfaces. Surface Science, 1997 , 377-379, 150-15	41.8	33
76	Peculiar Piezoelectric Properties of Soft Two-Dimensional Materials. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 13948-13953	3.8	32
75	Metal nanoring and tube formation on carbon nanotubes. <i>Physical Review B</i> , 2002 , 66,	3.3	31
74	Rich complex behaviour of self-assembled nanoparticles far from equilibrium. <i>Nature Communications</i> , 2017 , 8, 14942	17.4	29
73	Structural and electronic properties of MoS2, WS2, and WS2/MoS2 heterostructures encapsulated with hexagonal boron nitride monolayers. <i>Journal of Applied Physics</i> , 2017 , 122, 065303	2.5	29
72	Formation of quantum structures on a single nanotube by modulating hydrogen adsorption. <i>Physical Review B</i> , 2003 , 68,	3.3	29
71	Effect of impurities on the mechanical and electronic properties of Au, Ag, and Cu monatomic chain nanowires. <i>Physical Review B</i> , 2011 , 84,	3.3	28

70	A comparative study of O2 adsorbed carbon nanotubes. Chemical Physics Letters, 2003, 380, 1-5	2.5	28
69	Relaxations of fluorouracil tautomers by decorations of fullerene-like SiCs: DFT studies. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2016 , 380, 2160-2166	2.3	28
68	DFT explorations of quadrupole coupling constants for planar 5-fluorouracil pairs. <i>Computational and Theoretical Chemistry</i> , 2016 , 1090, 67-73	2	27
67	Pt-incorporated anatase TiO2(001) surface for solar cell applications: First-principles density functional theory calculations. <i>Physical Review B</i> , 2009 , 79,	3.3	27
66	An experimental and first-principles study of the effect of B/N doping in TiO2 thin films for visible light photo-catalysis. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2013 , 254, 25-34	4.7	25
65	Dye adsorbates BrPDI, BrGly, and BrAsp on anatase TiO2(001) for dye-sensitized solar cell applications. <i>Physical Review B</i> , 2009 , 80,	3.3	25
64	A distinct correlation between the vibrational and thermal transport properties of group VA monolayer crystals. <i>Nanoscale</i> , 2018 , 10, 7803-7812	7.7	23
63	Analysis of Charge Transfer for in Situ Li Intercalated Carbon Nanotubes. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 11364-11369	3.8	23
62	Validation of inter-atomic potential for WS2 and WSe2 crystals through assessment of thermal transport properties. <i>Computational Materials Science</i> , 2018 , 144, 92-98	3.2	23
61	Ab initio study of neutral (TiO2)n clusters and their interactions with water and transition metal atoms. <i>Journal of Physics Condensed Matter</i> , 2012 , 24, 305301	1.8	22
60	Effect of Molecular and Electronic Structure on the Light-Harvesting Properties of Dye Sensitizers. Journal of Physical Chemistry C, 2007 , 111, 7539-7547	3.8	22
59	Piezoelectric Pb(Zr0.5Ti0.5)O3: Interplay of atomic ordering, ferroelectric soft modes, and pressure. <i>Physical Review B</i> , 2002 , 66,	3.3	22
58	First-principles study of thin TiOx and bulklike rutile nanowires. <i>Physical Review B</i> , 2009 , 80,	3.3	21
57	First principles study of electronic and mechanical properties of molybdenum selenide type nanowires. <i>Physical Review B</i> , 2006 , 74,	3.3	21
56	First-principles investigation of pentagonal and hexagonal core-shell silicon nanowires with various core compositions. <i>Physical Review B</i> , 2009 , 80,	3.3	20
55	Vacancy formation enthalpy at high pressures in tantalum. <i>Journal of Physics Condensed Matter</i> , 2003 , 15, 855-861	1.8	19
54	First-Principles Investigation of NOx and SOx Adsorption on Anatase-Supported BaO and Pt Overlayers. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 6191-6199	3.8	18
53	Electronic structure of half-metallic ferromagnet Co2MnSi at high-pressure. <i>European Physical Journal B</i> , 2010 , 76, 321-326	1.2	18

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52	Non-covalent functionalization of single wall carbon nanotubes and graphene by a conjugated polymer. <i>Applied Physics Letters</i> , 2014 , 105, 013103	3.4	17	
51	Bias in bonding behavior among boron, carbon, and nitrogen atoms in ion implanted a-BN, a-BC, and diamond like carbon films. <i>Journal of Applied Physics</i> , 2011 , 110, 074906	2.5	17	
50	Modification of TiO2(001) surface electronic structure by Au impurity investigated with density functional theory. <i>Physical Review B</i> , 2009 , 80,	3.3	15	
49	An experimental and theoretical examination of the effect of sulfur on the pyrolytically grown carbon nanotubes from sucrose-based solid state precursors. <i>Carbon</i> , 2011 , 49, 508-517	10.4	15	
48	First-principles investigation of armchair stanene nanoribbons. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2018 , 382, 180-185	2.3	14	
47	Theoretical and spectroscopic investigations on the structure and bonding in BIIN thin films. <i>Thin Solid Films</i> , 2009 , 518, 1459-1464	2.2	14	
46	Investigation of new two-dimensional materials derived from stanene. <i>Computational Materials Science</i> , 2017 , 137, 208-214	3.2	14	
45	A systematical ab-initio review of promising 2D MXene monolayers towards Li-ion battery applications. <i>JPhys Energy</i> , 2020 , 2, 032006	4.9	14	
44	A simple theory of 40K superconductivity in MgB2: first-principles calculations of Tc, its dependence on boron mass and pressure. <i>Journal of Physics and Chemistry of Solids</i> , 2002 , 63, 2201-2200	6 ^{3.9}	13	
43	Gate induced monolayer behavior in twisted bilayer black phosphorus. 2D Materials, 2017 , 4, 035025	5.9	12	
42	Temperature-dependent phonon spectrum of transition metal dichalcogenides calculated from the spectral energy density: Lattice thermal conductivity as an application. <i>Physical Review B</i> , 2019 , 100,	3.3	11	
41	Electronic structures and optical spectra of thin anatase TiO2 nanowires through hybrid density functional and quasiparticle calculations. <i>Physical Review B</i> , 2014 , 89,	3.3	11	
40	DFT study of noble metal impurities on TiO2(110). European Physical Journal B, 2012, 85, 1	1.2	11	
39	DFT Studies of Graphene-Functionalised Derivatives of Capecitabine. <i>Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences</i> , 2017 , 72, 1131-1138	1.4	10	
38	VIBRATIONAL MODES IN SMALL Agn, Aun CLUSTERS: A FIRST PRINCIPLE CALCULATION. International Journal of Modern Physics B, 2009 , 23, 5819-5834	1.1	10	
37	Characterization of platinum nitride from first-principles calculations. <i>Journal of Physics Condensed Matter</i> , 2009 , 21, 485403	1.8	9	
36	Electronic structure of strained Sin/Gen(001) superlattices. Solid State Communications, 1988, 65, 1285-	1200	9	
35	Chemically uracil f unctionalized carbon and silicon carbide nanotubes: Computational studies. Materials Chemistry and Physics, 2018 , 205, 164-170	4.4	9	

34	Hofstadter butterfly of graphene with point defects. <i>Physical Review B</i> , 2012 , 85,	3.3	8
33	Localization of acoustical modes due to the electron-phonon interaction within a two-dimensional electron gas. <i>Journal of Physics Condensed Matter</i> , 1993 , 5, 589-598	1.8	8
32	On the structural and electronic properties of Ir-silicide nanowires on Si(001) surface. <i>Journal of Applied Physics</i> , 2016 , 120, 095303	2.5	8
31	Interaction of BrPDI, BrGly, and BrAsp with the Rutile TiO2(110) Surface for Photovoltaic and Photocatalytic Applications: A First-Principles Study. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 9220-92	2 ³ 6 ⁸	7
30	A study on the reconstruction of Ga terminated GaAs [1 1 1] surface. <i>Solid State Communications</i> , 1985 , 56, 501-504	1.6	6
29	DFT studies of CNTfunctionalized uracil-acetate hybrids. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2015 , 73, 105-109	3	5
28	Electric-field effects on finite-length superlattices. <i>Physical Review B</i> , 1992 , 46, 7621-7626	3.3	5
27	Anatase TiO2 nanowires functionalized by organic sensitizers for solar cells: A screened Coulomb hybrid density functional study. <i>Journal of Applied Physics</i> , 2015 , 118, 194301	2.5	4
26	Analysis of defects on BN nano-structures using high-resolution electron microscopy and density-functional calculations. <i>Ultramicroscopy</i> , 2008 , 108, 1484-9	3.1	4
25	Distributed contact flip chip InGaN/GaN blue LED; comparison with conventional LEDs. <i>Superlattices and Microstructures</i> , 2019 , 128, 9-13	2.8	4
24	Hybrid functional calculated optical and electronic structures of thin anatase TiO2 nanowires with organic dye adsorbates. <i>Applied Surface Science</i> , 2015 , 354, 437-442	6.7	3
23	In pursuit of barrierless transition metal dichalcogenides lateral heterojunctions. <i>Nanotechnology</i> , 2018 , 29, 295202	3.4	3
22	Nanotribological Properties of the h-BN/Au(111) Interface: A DFT Study. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 28411-28418	3.8	3
21	Synthesis of Phosphorus Included Multiwalled Carbon Nanotubes by Pyrolysis of Sucrose. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 24554-24560	3.8	3
20	The integer quantum Hall effect of a square lattice with an array of point defects. <i>Journal of Physics Condensed Matter</i> , 2012 , 24, 345501	1.8	3
19	Thermoelectric efficiency of nanowires with long-range surface disorder. <i>Physical Review B</i> , 2012 , 85,	3.3	3
18	Mixed ab initio and semiempirical study of hydrogen-terminated finite germanium nanowires. <i>European Physical Journal Plus</i> , 2018 , 133, 1	3.1	3
17	Functionalization of (n, 0) CNTs (n = 3🛭 6) by uracil: DFT studies. <i>European Physical Journal B</i> , 2018 , 91, 1	1.2	2

LIST OF PUBLICATIONS

16	Double Perovskite Structure Induced by Co Addition to PbTiO3: Insights from DFT and Experimental Solid-State NMR Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 27132-27139	3.8	2
15	Local entanglement and string order parameter in dimerized models. <i>Journal of Physics Condensed Matter</i> , 2019 , 31, 505602	1.8	2
14	Range-Separated Hybrid Density Functional Study of Organic Dye Sensitizers on Anatase TiO2 Nanowires. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 24776-24783	3.8	2
13	Hall conductance in graphene with point defects. <i>Journal of Physics Condensed Matter</i> , 2013 , 25, 055307	21.8	2
12	Ab-initio Atomic Scale Study of Nearly Frictionless Surfaces 2007 , 57-77		2
11	First-principles zone-center theory of superconductivity in MgB2. <i>Applied Physics A: Materials Science and Processing</i> , 2002 , 74, s945-s947	2.6	2
10	Elucidating the Barriers on Direct Water Splitting: Key Role of Oxygen Vacancy Density and Coordination over PbTiO3 and TiO2. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 1874-1880	3.8	2
9	Deterministic phase transitions and self-organization in logistic cellular automata. <i>Physical Review E</i> , 2019 , 100, 042216	2.4	1
8	Systematic spatial and stoichiometric screening towards understanding the surface of ultrasmall oxygenated silicon nanocrystal. <i>Applied Surface Science</i> , 2016 , 387, 771-778	6.7	1
7	DIPEPTIDE ADSORPTION ON Si(100)-2 🗈 ASYMMETRIC SURFACE BY FIRST PRINCIPLES. International Journal of Modern Physics C, 2010 , 21, 97-106	1.1	1
6	New Trends in Nanotribology. <i>Tribology Letters</i> , 2010 , 39, 227-227	2.8	1
5	Pattern information extraction from crystal structures. <i>Computer Physics Communications</i> , 2007 , 176, 486-506	4.2	1
4	Electronic structure of a Si delta -layer embedded in Ge(001). <i>Semiconductor Science and Technology</i> , 1991 , 6, 1002-1005	1.8	1
3	Electronic structure of Ge-Si superlattices grown on Ge (001). <i>Semiconductor Science and Technology</i> , 1991 , 6, 638-641	1.8	1
2	Infrared spectrum and STM images of cyclohexene-2-ethanamine: First principle investigation. Journal of Molecular Structure, 2008 , 886, 144-147	3.4	
1	Theoretical study of germanium nanoclusters: significance of surface passivation. <i>European Physical Journal Plus</i> , 2022 , 137, 1	3.1	