

Oguz Glseren

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

105
papers

4,393
citations

31
h-index

65
g-index

107
ext. papers

4,740
ext. citations

4
avg, IF

5.47
L-index

#	Paper	IF	Citations
105	Theoretical study of germanium nanoclusters: significance of surface passivation. <i>European Physical Journal Plus</i> , 2022 , 137, 1	3.1	
104	Elucidating the Barriers on Direct Water Splitting: Key Role of Oxygen Vacancy Density and Coordination over PbTiO ₃ and TiO ₂ . <i>Journal of Physical Chemistry C</i> , 2021 , 125, 1874-1880	3.8	2
103	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
102	Deterministic phase transitions and self-organization in logistic cellular automata. <i>Physical Review E</i> , 2019 , 100, 042216	2.4	1
101	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
100	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
99	Double Perovskite Structure Induced by Co Addition to PbTiO ₃ : Insights from DFT and Experimental Solid-State NMR Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 27132-27139	3.8	2
98	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
97	Local entanglement and string order parameter in dimerized models. <i>Journal of Physics Condensed Matter</i> , 2019 , 31, 505602	1.8	2
96	Distributed contact flip chip InGaN/GaN blue LED; comparison with conventional LEDs. <i>Superlattices and Microstructures</i> , 2019 , 128, 9-13	2.8	4
95	Functionalization of (n, 0) CNTs (n = 3-6) by uracil: DFT studies. <i>European Physical Journal B</i> , 2018 , 91, 1	1.2	2
94	MXenes/graphene heterostructures for Li battery applications: a first principles study. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 2337-2345	13	119
93	In pursuit of barrierless transition metal dichalcogenides lateral heterojunctions. <i>Nanotechnology</i> , 2018 , 29, 295202	3.4	3
92	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
91	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
90	Validation of inter-atomic potential for WS ₂ and WSe ₂ crystals through assessment of thermal transport properties. <i>Computational Materials Science</i> , 2018 , 144, 92-98	3.2	23
89	Chemically uracil-functionalized carbon and silicon carbide nanotubes: Computational studies. <i>Materials Chemistry and Physics</i> , 2018 , 205, 164-170	4.4	9

88	Mixed ab initio and semiempirical study of hydrogen-terminated finite germanium nanowires. <i>European Physical Journal Plus</i> , 2018 , 133, 1	3.1	3
87	Rich complex behaviour of self-assembled nanoparticles far from equilibrium. <i>Nature Communications</i> , 2017 , 8, 14942	17.4	29
86	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
85	Gate induced monolayer behavior in twisted bilayer black phosphorus. <i>2D Materials</i> , 2017 , 4, 035025	5.9	12
84	Structural and electronic properties of MoS ₂ , WS ₂ , and WS ₂ /MoS ₂ heterostructures encapsulated with hexagonal boron nitride monolayers. <i>Journal of Applied Physics</i> , 2017 , 122, 065303	2.5	29
83	Investigation of new two-dimensional materials derived from stanene. <i>Computational Materials Science</i> , 2017 , 137, 208-214	3.2	14
82	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
81	DFT explorations of quadrupole coupling constants for planar 5-fluorouracil pairs. <i>Computational and Theoretical Chemistry</i> , 2016 , 1090, 67-73	2	27
80	Peculiar Piezoelectric Properties of Soft Two-Dimensional Materials. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 13948-13953	3.8	32
79	Mo ₂ C as a high capacity anode material: a first-principles study. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 6029-6035	13	179
78	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
77	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
76	Hybrid functional calculated optical and electronic structures of thin anatase TiO ₂ nanowires with organic dye adsorbates. <i>Applied Surface Science</i> , 2015 , 354, 437-442	6.7	3
75	Anatase TiO ₂ 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
74	DFT studies of CNT functionalized uracil-acetate hybrids. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2015 , 73, 105-109	3	5
73	Range-Separated Hybrid Density Functional Study of Organic Dye Sensitizers on Anatase TiO ₂ Nanowires. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 24776-24783	3.8	2
72	Electronic structures and optical spectra of thin anatase TiO ₂ nanowires through hybrid density functional and quasiparticle calculations. <i>Physical Review B</i> , 2014 , 89,	3.3	11
71	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

70	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
69	An experimental and first-principles study of the effect of B/N doping in TiO ₂ thin films for visible light photo-catalysis. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2013 , 254, 25-34	4.7	25
68	Hall conductance in graphene with point defects. <i>Journal of Physics Condensed Matter</i> , 2013 , 25, 055302	1.8	2
67	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
66	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
65	Thermoelectric efficiency of nanowires with long-range surface disorder. <i>Physical Review B</i> , 2012 , 85,	3.3	3
64	Adsorption of Pt and Bimetallic PtAu Clusters on the Partially Reduced Rutile (110) TiO ₂ Surface: A First-Principles Study. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 5735-5746	3.8	36
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	DFT study of noble metal impurities on TiO ₂ (110). <i>European Physical Journal B</i> , 2012 , 85, 1	1.2	11
61	Ab initio study of neutral (TiO ₂) _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	First-Principles Investigation of NO _x and SO _x Adsorption on Anatase-Supported BaO and Pt Overlayers. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 6191-6199	3.8	18
59	Hofstadter butterfly of graphene with point defects. <i>Physical Review B</i> , 2012 , 85,	3.3	8
58	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
57	Interaction of BrPDI, BrGly, and BrAsp with the Rutile TiO ₂ (110) Surface for Photovoltaic and Photocatalytic Applications: A First-Principles Study. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 9220-9226	3.8	7
56	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
55	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
54	DIPEPTIDE ADSORPTION ON Si(100)-2 × 1 ASYMMETRIC SURFACE BY FIRST PRINCIPLES. <i>International Journal of Modern Physics C</i> , 2010 , 21, 97-106	1.1	1
53	Electronic structure of half-metallic ferromagnet Co ₂ MnSi at high-pressure. <i>European Physical Journal B</i> , 2010 , 76, 321-326	1.2	18

52	New Trends in Nanotribology. <i>Tribology Letters</i> , 2010 , 39, 227-227	2.8	1
51	Dye adsorbates BrPDI, BrGly, and BrAsp on anatase TiO ₂ (001) for dye-sensitized solar cell applications. <i>Physical Review B</i> , 2009 , 80,	3.3	25
50	First-principles study of thin TiOx and bulklike rutile nanowires. <i>Physical Review B</i> , 2009 , 80,	3.3	21
49	Modification of TiO ₂ (001) surface electronic structure by Au impurity investigated with density functional theory. <i>Physical Review B</i> , 2009 , 80,	3.3	15
48	VIBRATIONAL MODES IN SMALL Ag _n , Au _n CLUSTERS: A FIRST PRINCIPLE CALCULATION. <i>International Journal of Modern Physics B</i> , 2009 , 23, 5819-5834	1.1	10
47	Characterization of platinum nitride from first-principles calculations. <i>Journal of Physics Condensed Matter</i> , 2009 , 21, 485403	1.8	9
46	Theoretical and spectroscopic investigations on the structure and bonding in B ₁₂ N thin films. <i>Thin Solid Films</i> , 2009 , 518, 1459-1464	2.2	14
45	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
44	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
43	Pt-incorporated anatase TiO ₂ (001) surface for solar cell applications: First-principles density functional theory calculations. <i>Physical Review B</i> , 2009 , 79,	3.3	27
42	Infrared spectrum and STM images of cyclohexene-2-ethanamine: First principle investigation. <i>Journal of Molecular Structure</i> , 2008 , 886, 144-147	3.4	
41	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
40	Effect of Molecular and Electronic Structure on the Light-Harvesting Properties of Dye Sensitizers. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 7539-7547	3.8	22
39	Pattern information extraction from crystal structures. <i>Computer Physics Communications</i> , 2007 , 176, 486-506	4.2	1
38	Ab-initio Atomic Scale Study of Nearly Frictionless Surfaces 2007 , 57-77		2
37	First principles study of electronic and mechanical properties of molybdenum selenide type nanowires. <i>Physical Review B</i> , 2006 , 74,	3.3	21
36	First principles force field for metallic tantalum. <i>Modelling and Simulation in Materials Science and Engineering</i> , 2004 , 12, S445-S459	2	34
35	Functionalized carbon nanotubes and device applications. <i>Journal of Physics Condensed Matter</i> , 2004 , 16, R901-R960	1.8	90

34	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
33	Vacancy formation enthalpy at high pressures in tantalum. <i>Journal of Physics Condensed Matter</i> , 2003 , 15, 855-861	1.8	19
32	Systematic study of adsorption of single atoms on a carbon nanotube. <i>Physical Review B</i> , 2003 , 67,	3.3	284
31	A comparative study of O ₂ adsorbed carbon nanotubes. <i>Chemical Physics Letters</i> , 2003 , 380, 1-5	2.5	28
30	Oxygenation of carbon nanotubes: Atomic structure, energetics, and electronic structure. <i>Physical Review B</i> , 2003 , 67,	3.3	106
29	Electronic structure of the contact between carbon nanotube and metal electrodes. <i>Applied Physics Letters</i> , 2003 , 83, 3180-3182	3.4	52
28	Formation of quantum structures on a single nanotube by modulating hydrogen adsorption. <i>Physical Review B</i> , 2003 , 68,	3.3	29
27	First-principles zone-center theory of superconductivity in MgB ₂ . <i>Applied Physics A: Materials Science and Processing</i> , 2002 , 74, s945-s947	2.6	2
26	A simple theory of 40K superconductivity in MgB ₂ : first-principles calculations of T _c , its dependence on boron mass and pressure. <i>Journal of Physics and Chemistry of Solids</i> , 2002 , 63, 2201-2206	3.9	13
25	Pentagonal nanowires: A first-principles study of the atomic and electronic structure. <i>Physical Review B</i> , 2002 , 65,	3.3	72
24	Systematic ab initio study of curvature effects in carbon nanotubes. <i>Physical Review B</i> , 2002 , 65,	3.3	202
23	Effects of hydrogen adsorption on single-wall carbon nanotubes: Metallic hydrogen decoration. <i>Physical Review B</i> , 2002 , 66,	3.3	99
22	Metal nanoring and tube formation on carbon nanotubes. <i>Physical Review B</i> , 2002 , 66,	3.3	31
21	Piezoelectric Pb(Zr _{0.5} Ti _{0.5})O ₃ : Interplay of atomic ordering, ferroelectric soft modes, and pressure. <i>Physical Review B</i> , 2002 , 66,	3.3	22
20	High-pressure thermoelasticity of body-centered-cubic tantalum. <i>Physical Review B</i> , 2002 , 65,	3.3	109
19	Reversible band-gap engineering in carbon nanotubes by radial deformation. <i>Physical Review B</i> , 2002 , 65,	3.3	116
18	Elasticity of iron at the temperature of the Earth's inner core. <i>Nature</i> , 2001 , 413, 57-60	50.4	220
17	Giant anharmonicity and nonlinear electron-phonon coupling in MgB ₂ : a combined first-principles calculation and neutron scattering study. <i>Physical Review Letters</i> , 2001 , 87, 037001	7.4	328

16	Tunable adsorption on carbon nanotubes. <i>Physical Review Letters</i> , 2001 , 87, 116802	7.4	169
15	Exohydrogenated single-wall carbon nanotubes. <i>Physical Review B</i> , 2001 , 64,	3.3	94
14	Thermal equation of state of tantalum. <i>Physical Review B</i> , 2001 , 63,	3.3	76
13	Accuracy of equation-of-state formulations. <i>American Mineralogist</i> , 2000 , 85, 338-344	2.9	135
12	Variable and reversible quantum structures on a single carbon nanotube. <i>Physical Review B</i> , 2000 , 62, R16345-R16348	3.3	49
11	Pressure-induced interlinking of carbon nanotubes. <i>Physical Review B</i> , 2000 , 62, 12648-12651	3.3	104
10	Noncrystalline Structures of Ultrathin Unsupported Nanowires. <i>Physical Review Letters</i> , 1998 , 80, 3775-3778	1.8	253
9	Added row model of TiO ₂ (110)1 \times 1. <i>Physical Review B</i> , 1998 , 58, 1586-1589	3.3	121
8	Theoretical analysis of STM experiments at rutile TiO ₂ surfaces. <i>Surface Science</i> , 1997 , 377-379, 150-154	1.8	33
7	Premelting of thin wires. <i>Physical Review B</i> , 1995 , 51, 7377-7380	3.3	131
6	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
5	Electric-field effects on finite-length superlattices. <i>Physical Review B</i> , 1992 , 46, 7621-7626	3.3	5
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	Electronic structure of strained Si _n /Ge _n (001) superlattices. <i>Solid State Communications</i> , 1988 , 65, 1285-1290	1.6	9
1	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