

Deniz Cakir

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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.

58
papers

2,255
citations

24
h-index

47
g-index

60
ext. papers

2,617
ext. citations

4.5
avg, IF

5.54
L-index

#	Paper	IF	Citations
58	Tuning of the electronic and optical properties of single-layer black phosphorus by strain. <i>Physical Review B</i> , 2014 , 90,	3.3	235
57	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
56	Significant effect of stacking on the electronic and optical properties of few-layer black phosphorus. <i>Physical Review B</i> , 2015 , 92,	3.3	135
55	MXenes/graphene heterostructures for Li battery applications: a first principles study. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 2337-2345	13	119
54	Formation and stability of point defects in monolayer rhenium disulfide. <i>Physical Review B</i> , 2014 , 89,	3.3	118
53	Promising Piezoelectric Performance of Single Layer Transition-Metal Dichalcogenides and Dioxides. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 23231-23237	3.8	114
52	Thermal properties of black and blue phosphorenes from a first-principles quasiharmonic approach. <i>Physical Review B</i> , 2015 , 92,	3.3	111
51	Mechanical and thermal properties of h-MX ₂ (M = Cr, Mo, W; X = O, S, Se, Te) monolayers: A comparative study. <i>Applied Physics Letters</i> , 2014 , 104, 203110	3.4	110
50	Realization of a p-n junction in a single layer boron-phosphide. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 13013-20	3.6	93
49	Anisotropic exciton Stark shift in black phosphorus. <i>Physical Review B</i> , 2015 , 91,	3.3	85
48	The influence of surface functionalization on thermal transport and thermoelectric properties of MXene monolayers. <i>Nanoscale</i> , 2018 , 10, 8859-8868	7.7	72
47	Half-metallic silicon nanowires: first-principles calculations. <i>Physical Review Letters</i> , 2007 , 99, 256806	7.4	66
46	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
45	Doping of rhenium disulfide monolayers: a systematic first principles study. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 16771-9	3.6	56
44	Fermi level pinning by integer charge transfer at electrode-organic semiconductor interfaces. <i>Applied Physics Letters</i> , 2011 , 98, 113303	3.4	41
43	Dependence of the electronic and transport properties of metal-MoSe ₂ interfaces on contact structures. <i>Physical Review B</i> , 2014 , 89,	3.3	38
42	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

41	Magnetic properties of bcc-Fe(001)/Cu interfaces for organic spintronics. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 837-41	9.5	33
40	Peculiar Piezoelectric Properties of Soft Two-Dimensional Materials. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 13948-13953	3.8	32
39	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
38	Piezoelectricity in two-dimensional materials: Comparative study between lattice dynamics and ab initio calculations. <i>Physical Review B</i> , 2017 , 95,	3.3	25
37	Modeling charge transfer at organic donor-acceptor semiconductor interfaces. <i>Applied Physics Letters</i> , 2012 , 100, 203302	3.4	25
36	Role of intrinsic molecular dipole in energy level alignment at organic interfaces. <i>Applied Physics Letters</i> , 2013 , 102, 223301	3.4	25
35	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
34	Strain enhancement of acoustic phonon limited mobility in monolayer TiS ₃ . <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 14434-41	3.6	24
33	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
32	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
31	Engineering electronic properties of metal/MoSe ₂ interfaces using self-assembled monolayers. <i>Journal of Materials Chemistry C</i> , 2014 , 2, 9842-9849	7.1	21
30	First-principles study of thin TiO _x and bulklike rutile nanowires. <i>Physical Review B</i> , 2009 , 80,	3.3	21
29	First principles study of electronic and mechanical properties of molybdenum selenide type nanowires. <i>Physical Review B</i> , 2006 , 74,	3.3	21
28	Intercalation of Si between MoS layers. <i>Beilstein Journal of Nanotechnology</i> , 2017 , 8, 1952-1960	3	20
27	Strain Spintronics: Modulating Electronic and Magnetic Properties of Hf ₂ MnC ₂ O ₂ MXene by Uniaxial Strain. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 12451-12459	3.8	19
26	Charge equilibration and potential steps in organic semiconductor multilayers. <i>Organic Electronics</i> , 2012 , 13, 1793-1801	3.5	19
25	Magnetoresistance in multilayer fullerene spin valves: A first-principles study. <i>Physical Review B</i> , 2014 , 90,	3.3	18
24	Achieving Fast Kinetics and Enhanced Li Storage Capacity for Ti ₃ C ₂ O ₂ by Intercalation of Quinone Molecules. <i>ACS Applied Energy Materials</i> , 2019 , 2, 1251-1258	6.1	15

23	Tailoring Storage Capacity and Ion Kinetics in Ti ₂ CO ₂ /Graphene Heterostructures by Functionalization of Graphene. <i>Physical Review Applied</i> , 2019 , 12,	4.3	14
22	From spin-polarized interfaces to giant magnetoresistance in organic spin valves. <i>Physical Review B</i> , 2014 , 89,	3.3	14
21	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
20	Gate induced monolayer behavior in twisted bilayer black phosphorus. <i>2D Materials</i> , 2017 , 4, 035025	5.9	12
19	Native Defects and the Dehydrogenation of NaBH ₄ . <i>Journal of Physical Chemistry C</i> , 2011 , 115, 24429-24434	3.4	12
18	Strain engineering of electronic and magnetic properties of double-transition metal ferromagnetic semiconductor MXenes. <i>Journal of Applied Physics</i> , 2019 , 125, 082527	2.5	12
17	Comprehensive Study of Lithium Adsorption and Diffusion on Janus Mo/WXY (X, Y = S, Se, Te) Using First-Principles and Machine Learning Approaches. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 36388-36406	8.5	12
16	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
15	Assessment of Sulfur-Functionalized MXenes for Li-Ion Battery Applications. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 21293-21304	3.8	8
14	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
13	Fluorographane: a promising material for bipolar doping of MoS ₂ . <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 27636-41	3.6	7
12	Revealing the Formation Energy-Exfoliation Energy-Structure Correlation of MAB Phases Using Machine Learning and DFT. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 29424-29431	9.5	7
11	Determination of Dynamically Stable Electrenes toward Ultrafast Charging Battery Applications. <i>Journal of Physical Chemistry Letters</i> , 2018 , 9, 4267-4274	6.4	7
10	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
9	Scanning Tunneling Microscopy and Density Functional Theory Study on Zinc(II)-Phthalocyanine Tetrasulfonic Acid on Bilayer Epitaxial Graphene on Silicon Carbide(0001). <i>Journal of Physical Chemistry C</i> , 2015 , 119, 9845-9850	3.8	4
8	Electronic and mechanical properties of stiff rhenium carbide monolayers: A first-principles investigation. <i>Applied Surface Science</i> , 2018 , 458, 762-768	6.7	4
7	Enhanced Electrochemical Storage Properties of Na- and Mg-Intercalated B-Doped-Graphene Based Heterostructures and Bilayers. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 1260-1268	3.8	4
6	Silicene-Like Domains on IrSi ₃ Crystallites. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 7225-7229	3.8	3

5	In pursuit of barrierless transition metal dichalcogenides lateral heterojunctions. <i>Nanotechnology</i> , 2018 , 29, 295202	3.4	3
4	Angle-resolved synchrotron photoemission and density functional theory on the iridium modified Si(1 1 1) surface. <i>Journal of Physics Condensed Matter</i> , 2014 , 26, 285501	1.8	3
3	Stability of adsorption of Mg and Na on sulfur-functionalized MXenes. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 25424-25433	3.6	2
2	Engineering magnetic anisotropy and exchange couplings in double transition metal MXenes via surface defects. <i>Journal of Physics Condensed Matter</i> , 2020 , 33, 035801	1.8	1
1	Study of iridium silicide monolayers using density functional theory. <i>Journal of Applied Physics</i> , 2018 , 123, 074301	2.5	0