

# Deniz Cakir

## List of Publications by Year in Descending Order

**Source:** <https://exaly.com/author-pdf/8767827/deniz-cakir-publications-by-year.pdf>

**Version:** 2024-04-23

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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	Stability of adsorption of Mg and Na on sulfur-functionalized MXenes. <i>Physical Chemistry Chemical Physics</i> , <b>2021</b> , 23, 25424-25433	3.6	2
57	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 &amp; Interfaces</i> , <b>2021</b> , 13, 36388-36406	8.5	12
56	Revealing the Formation Energy-Exfoliation Energy-Structure Correlation of MAB Phases Using Machine Learning and DFT. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 29424-29431	9.5	7
55	Engineering magnetic anisotropy and exchange couplings in double transition metal MXenes via surface defects. <i>Journal of Physics Condensed Matter</i> , <b>2020</b> , 33, 035801	1.8	1
54	A systematical ab-initio review of promising 2D MXene monolayers towards Li-ion battery applications. <i>JPhys Energy</i> , <b>2020</b> , 2, 032006	4.9	14
53	Enhanced Electrochemical Storage Properties of Na- and Mg-Intercalated B-Doped-Graphene Based Heterostructures and Bilayers. <i>Journal of Physical Chemistry C</i> , <b>2020</b> , 124, 1260-1268	3.8	4
52	Assessment of Sulfur-Functionalized MXenes for Li-Ion Battery Applications. <i>Journal of Physical Chemistry C</i> , <b>2020</b> , 124, 21293-21304	3.8	8
51	Alkali Metal Intercalation in MXene/Graphene Heterostructures: A New Platform for Ion Battery Applications. <i>Journal of Physical Chemistry Letters</i> , <b>2019</b> , 10, 727-734	6.4	60
50	StrainSpintronics: Modulating Electronic and Magnetic Properties of Hf <sub>2</sub> MnC <sub>2</sub> O <sub>2</sub> MXene by Uniaxial Strain. <i>Journal of Physical Chemistry C</i> , <b>2019</b> , 123, 12451-12459	3.8	19
49	Silicene-Like Domains on IrSi <sub>3</sub> Crystallites. <i>Journal of Physical Chemistry C</i> , <b>2019</b> , 123, 7225-7229	3.8	3
48	Tailoring Storage Capacity and Ion Kinetics in Ti <sub>2</sub> CO <sub>2</sub> /Graphene Heterostructures by Functionalization of Graphene. <i>Physical Review Applied</i> , <b>2019</b> , 12,	4.3	14
47	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> , <b>2019</b> , 100,	3.3	11
46	Achieving Fast Kinetics and Enhanced Li Storage Capacity for Ti <sub>3</sub> C <sub>2</sub> O <sub>2</sub> by Intercalation of Quinone Molecules. <i>ACS Applied Energy Materials</i> , <b>2019</b> , 2, 1251-1258	6.1	15
45	Strain engineering of electronic and magnetic properties of double-transition metal ferromagnetic semiconductor MXenes. <i>Journal of Applied Physics</i> , <b>2019</b> , 125, 082527	2.5	12
44	The influence of surface functionalization on thermal transport and thermoelectric properties of MXene monolayers. <i>Nanoscale</i> , <b>2018</b> , 10, 8859-8868	7.7	72
43	Study of iridium silicide monolayers using density functional theory. <i>Journal of Applied Physics</i> , <b>2018</b> , 123, 074301	2.5	0
42	MXenes/graphene heterostructures for Li battery applications: a first principles study. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 2337-2345	13	119

41	In pursuit of barrierless transition metal dichalcogenides lateral heterojunctions. <i>Nanotechnology</i> , <b>2018</b> , 29, 295202	3.4	3
40	A distinct correlation between the vibrational and thermal transport properties of group VA monolayer crystals. <i>Nanoscale</i> , <b>2018</b> , 10, 7803-7812	7.7	23
39	Electronic and mechanical properties of stiff rhenium carbide monolayers: A first-principles investigation. <i>Applied Surface Science</i> , <b>2018</b> , 458, 762-768	6.7	4
38	Determination of Dynamically Stable Electrenes toward Ultrafast Charging Battery Applications. <i>Journal of Physical Chemistry Letters</i> , <b>2018</b> , 9, 4267-4274	6.4	7
37	Piezoelectricity in two-dimensional materials: Comparative study between lattice dynamics and ab initio calculations. <i>Physical Review B</i> , <b>2017</b> , 95,	3.3	25
36	Gate induced monolayer behavior in twisted bilayer black phosphorus. <i>2D Materials</i> , <b>2017</b> , 4, 035025	5.9	12
35	Intercalation of Si between MoS layers. <i>Beilstein Journal of Nanotechnology</i> , <b>2017</b> , 8, 1952-1960	3	20
34	Strain enhancement of acoustic phonon limited mobility in monolayer TiS <sub>3</sub> . <i>Physical Chemistry Chemical Physics</i> , <b>2016</b> , 18, 14434-41	3.6	24
33	Peculiar Piezoelectric Properties of Soft Two-Dimensional Materials. <i>Journal of Physical Chemistry C</i> , <b>2016</b> , 120, 13948-13953	3.8	32
32	Mo <sub>2</sub> C as a high capacity anode material: a first-principles study. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 6029-6035	13	179
31	On the structural and electronic properties of Ir-silicide nanowires on Si(001) surface. <i>Journal of Applied Physics</i> , <b>2016</b> , 120, 095303	2.5	8
30	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> , <b>2015</b> , 119, 9845-9850	3.8	4
29	Realization of a p-n junction in a single layer boron-phosphide. <i>Physical Chemistry Chemical Physics</i> , <b>2015</b> , 17, 13013-20	3.6	93
28	Fluorographane: a promising material for bipolar doping of MoS <sub>2</sub> . <i>Physical Chemistry Chemical Physics</i> , <b>2015</b> , 17, 27636-41	3.6	7
27	Promising Piezoelectric Performance of Single Layer Transition-Metal Dichalcogenides and Dioxides. <i>Journal of Physical Chemistry C</i> , <b>2015</b> , 119, 23231-23237	3.8	114
26	Thermal properties of black and blue phosphorenes from a first-principles quasiharmonic approach. <i>Physical Review B</i> , <b>2015</b> , 92,	3.3	111
25	Significant effect of stacking on the electronic and optical properties of few-layer black phosphorus. <i>Physical Review B</i> , <b>2015</b> , 92,	3.3	135
24	Anisotropic exciton Stark shift in black phosphorus. <i>Physical Review B</i> , <b>2015</b> , 91,	3.3	85

23	Tuning of the electronic and optical properties of single-layer black phosphorus by strain. <i>Physical Review B</i> , <b>2014</b> , 90,	3.3	235
22	Doping of rhenium disulfide monolayers: a systematic first principles study. <i>Physical Chemistry Chemical Physics</i> , <b>2014</b> , 16, 16771-9	3.6	56
21	Angle-resolved synchrotron photoemission and density functional theory on the iridium modified Si(1 1 1) surface. <i>Journal of Physics Condensed Matter</i> , <b>2014</b> , 26, 285501	1.8	3
20	From spin-polarized interfaces to giant magnetoresistance in organic spin valves. <i>Physical Review B</i> , <b>2014</b> , 89,	3.3	14
19	Mechanical and thermal properties of h-MX <sub>2</sub> (M = Cr, Mo, W; X = O, S, Se, Te) monolayers: A comparative study. <i>Applied Physics Letters</i> , <b>2014</b> , 104, 203110	3.4	110
18	Dependence of the electronic and transport properties of metal-MoSe <sub>2</sub> interfaces on contact structures. <i>Physical Review B</i> , <b>2014</b> , 89,	3.3	38
17	Engineering electronic properties of metal-MoSe <sub>2</sub> interfaces using self-assembled monolayers. <i>Journal of Materials Chemistry C</i> , <b>2014</b> , 2, 9842-9849	7.1	21
16	Formation and stability of point defects in monolayer rhenium disulfide. <i>Physical Review B</i> , <b>2014</b> , 89,	3.3	118
15	Magnetoresistance in multilayer fullerene spin valves: A first-principles study. <i>Physical Review B</i> , <b>2014</b> , 90,	3.3	18
14	Magnetic properties of bcc-Fe(001)/C interfaces for organic spintronics. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2013</b> , 5, 837-41	9.5	33
13	Role of intrinsic molecular dipole in energy level alignment at organic interfaces. <i>Applied Physics Letters</i> , <b>2013</b> , 102, 223301	3.4	25
12	Modeling charge transfer at organic donor-acceptor semiconductor interfaces. <i>Applied Physics Letters</i> , <b>2012</b> , 100, 203302	3.4	25
11	Adsorption of Pt and Bimetallic PtAu Clusters on the Partially Reduced Rutile (110) TiO <sub>2</sub> Surface: A First-Principles Study. <i>Journal of Physical Chemistry C</i> , <b>2012</b> , 116, 5735-5746	3.8	36
10	Charge equilibration and potential steps in organic semiconductor multilayers. <i>Organic Electronics</i> , <b>2012</b> , 13, 1793-1801	3.5	19
9	Ab initio study of neutral (TiO <sub>2</sub> ) <sub>n</sub> clusters and their interactions with water and transition metal atoms. <i>Journal of Physics Condensed Matter</i> , <b>2012</b> , 24, 305301	1.8	22
8	Interaction of BrPDI, BrGly, and BrAsp with the Rutile TiO <sub>2</sub> (110) Surface for Photovoltaic and Photocatalytic Applications: A First-Principles Study. <i>Journal of Physical Chemistry C</i> , <b>2011</b> , 115, 9220-9226	3.8	7
7	Native Defects and the Dehydrogenation of NaBH <sub>4</sub> . <i>Journal of Physical Chemistry C</i> , <b>2011</b> , 115, 24429-24434	3.8	12
6	Effect of impurities on the mechanical and electronic properties of Au, Ag, and Cu monatomic chain nanowires. <i>Physical Review B</i> , <b>2011</b> , 84,	3.3	28

5	Fermi level pinning by integer charge transfer at electrode-organic semiconductor interfaces. <i>Applied Physics Letters</i> , <b>2011</b> , 98, 113303	3-4	41
4	Dye adsorbates BrPDI, BrGly, and BrAsp on anatase TiO <sub>2</sub> (001) for dye-sensitized solar cell applications. <i>Physical Review B</i> , <b>2009</b> , 80,	3-3	25
3	First-principles study of thin TiO <sub>x</sub> and bulklike rutile nanowires. <i>Physical Review B</i> , <b>2009</b> , 80,	3-3	21
2	Half-metallic silicon nanowires: first-principles calculations. <i>Physical Review Letters</i> , <b>2007</b> , 99, 256806	7-4	66
1	First principles study of electronic and mechanical properties of molybdenum selenide type nanowires. <i>Physical Review B</i> , <b>2006</b> , 74,	3-3	21