

Åinasi EllialtÄ±oÄlu

List of Publications by Year in descending order

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citing authors

#	ARTICLE	IF	CITATIONS
1	Electronic and structural properties of a4dperovskite: Cubic phase of SrZrO3. Physical Review B, 2003, 68, .	3.2	96
2	Interpretation of the spectra obtained from oxygen-adsorbed and oxidized silicon surfaces. Physical Review B, 1982, 26, 5716-5729.	3.2	70
3	Lattice vibrations of pure and doped GaSe. Materials Research Bulletin, 2006, 41, 751-763.	5.2	52
4	Theoretical analysis of small Pt particles on rutile TiO2(110) surfaces. Physical Review B, 2010, 82, .	3.2	38
5	Surface electronic properties of d-band perovskites: Study of the bands. Physical Review B, 1978, 18, 4509-4525.	3.2	37
6	Density-of-states and partial-density-of-states functions for the cubic d-band perovskites. Physical Review B, 1982, 25, 2697-2714.	3.2	33
7	Spatial stabilization of Townsend and glow discharges with a semiconducting cathode. Journal Physics D: Applied Physics, 1996, 29, 628-633.	2.8	31
8	Electronic structure of the chainlike compound TlSe. Physical Review B, 2004, 70, .	3.2	31
9	Surface enhanced covalency and its effect on the surface states of d-band metal oxides. Applied Physics Berlin, 1977, 13, 21-24.	1.4	29
10	Pt-incorporated anatase TiO_2 for solar cell applications: First-principles density functional theory calculations. Physical Review B, 2009, 79, .	3.2	28
11	Pentacene Multilayers on Ag(111) Surface. Journal of Physical Chemistry C, 2010, 114, 2724-2729.	3.1	28
12	Dye adsorbates BrPDI, BrGly, and BrAsp on anatase TiO2(001) for dye-sensitized solar cell applications. Physical Review B, 2009, 80, .	3.2	25
13	Surface states on n-type SrTiO3. Solid State Communications, 1978, 27, 321-324.	1.9	23
14	Low-temperature phase transitions in TlGaS2 layer crystals. Solid State Communications, 1993, 88, 387-390.	1.9	18
15	Neutron Scattering by Magnons of an Antiferromagnet with Modulated Spin Amplitudes. Physical Review Letters, 1980, 44, 1295-1298.	7.8	17
16	Modification of TiO_2 electronic structure by Au impurity investigated with density functional theory. Physical Review B, 2009, 80, .	3.2	16
17	Structural and electronic properties of AB- and AA-stacking bilayer-graphene intercalated by Li, Na, Ca, B, Al, Si, Ge, Ag, and Au atoms. Solid State Communications, 2016, 231-232, 57-63.	1.9	15
18	Model for the x-ray photoelectron distributions of d-band perovskites. Physical Review B, 1979, 19, 43-46.	3.2	14

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19	Raman scattering in layer indium selenide under pressure. Solid State Communications, 1993, 87, 675-678.	1.9	14
20	Electronic structures and optical spectra of thin anatase TiO_2 through hybrid density functional and quasiparticle calculations. Physical Review B, 2014, 89, .	3.2	14
21	Influence of Steps on the Tilting and Adsorption Dynamics of Ordered Pentacene Films on Vicinal Ag(111) Surfaces. Journal of Physical Chemistry C, 2012, 116, 19429-19433.	3.1	13
22	Cs adsorption on Si(001) surface: Anab initiostudy. Physical Review B, 2005, 72, .	3.2	12
23	Elastic coefficients in $\text{TlGa}(\text{S}_{1-x}\text{Se}_x)_2$ and $\text{TlIn}_x\text{Ga}_{1-x}\text{S}_2$ layer mixed crystal by Brillouin scattering. Physica B: Condensed Matter, 1993, 192, 371-377.	2.7	11
24	Mg adsorption on Si(001) surface from first principles. Physical Review B, 2004, 69, . Surface energy and excess charge in (1×1) TiO_2 surface	3.2	11
25	$\text{TiO}_2(110)$ from DFT	3.2	11
26	Chemisorption of 3-Aminopropyltrimethoxysilane on Si(001)-(2 Å ⁻¹). Journal of Physical Chemistry C, 2007, 111, 15020-15025.	3.1	10
27	An ab initio study of 3-aminopropyltrimethoxysilane molecule on Si(111)-() surface. Surface Science, 2007, 601, 3740-3744.	1.9	10
28	Electronic structure of strained $\text{Si}_n/\text{Ge}_m(001)$ superlattices. Solid State Communications, 1988, 65, 1285-1290.	1.9	9
29	Low-temperature second harmonic generation in gallium selenide under resonant excitation of the direct free excitons. Solid State Communications, 1995, 93, 147-150.	1.9	9
30	Double Perovskite Structure Induced by Co Addition to PbTiO_3 : Insights from DFT and Experimental Solid-State NMR Spectroscopy. Journal of Physical Chemistry C, 2019, 123, 27132-27139.	3.1	8
31	Chemisorption of atomic oxygen on silicon surface. Solid State Communications, 1982, 42, 879-881.	1.9	7
32	Interaction of BrPDI, BrGly, and BrAsp with the Rutile $\text{TiO}_2(110)$ Surface for Photovoltaic and Photocatalytic Applications: A First-Principles Study. Journal of Physical Chemistry C, 2011, 115, 9220-9226.	3.1	7
33	Atomic and electronic structure of $\text{Bi}/\text{GaAs}(001)\text{-}\hat{1}\pm 2(2 \text{ \AA}^{-1})$. Journal of Physics Condensed Matter, 2008, 20, 265003.	1.8	6
34	Ab initio study of the one-monolayer Sb/Si(001) interface. Surface Science, 2003, 532-535, 661-665.	1.9	5
35	Adsorption of Te on Ge(001): Density-functional calculations. Physical Review B, 2003, 67, .	3.2	5
36	Atomic and electronic structure of $\text{Sr}/\text{Si}(001)\text{-}(2\hat{A}^{-1})$. Surface Science, 2006, 600, 3614-3618.	1.9	5

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37	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	5
38	Alkali and Alkaline earth metal doped aluminum tetraborides containing intrinsic planar boron sheet: XAlB ₄ (X= Li, Mg, Ca, and Na). <i>Computational Materials Science</i> , 2016, 124, 130-141.	3.0	5
39	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.	3.1	5
40	An investigation of the interface electronics structure of Si-SiO ₂ junctions. <i>Journal of Vacuum Science and Technology</i> , 1982, 21, 402-404.	1.9	3
41	Ab initio study of the one-monolayer Sb/Ge interface. <i>Surface Science</i> , 2004, 566-568, 956-960.	1.9	3
42	DFT study of Rb/Si(100)-2 \times 1 system. <i>Surface Science</i> , 2005, 583, 119-125.	1.9	3
43	Atomic and electronic structure of group-IV adsorbates on the GaAs(001)-(1 \times 1) surface. <i>Surface Science</i> , 2009, 603, 2683-2687.	1.9	3
44	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.	6.1	3
45	Matrix element effects in $\sim 2\%$ of the insulating perovskites. <i>Applied Physics Berlin</i> , 1980, 22, 11-13.	1.4	2
46	Calculations of STM linescans - general formalism. <i>Solid State Communications</i> , 1988, 66, 1135-1139.	1.9	2
47	Raman scattering and Hall effect in layer InSe under pressure. <i>High Pressure Research</i> , 1994, 13, 121-125.	1.2	2
48	Effect of hydrogenation on B/Si(001)-(1 \times 1). <i>Surface Science</i> , 2007, 601, 3711-3716.	1.9	2
49	Electronic and structural properties of armchair SWCNT/TiO ₂ (110)-(1 \times 1) system. <i>Surface Science</i> , 2011, 605, 593-596.	1.9	2
50	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.	3.1	2
51	Elastic Properties of GaS _{1-x} Se _x Layer Mixed Crystals by Brillouin Scattering. <i>Physica Status Solidi (B): Basic Research</i> , 1993, 177, K59.	1.5	1
52	An ab initio study of the Te surfactant on Ge/Si(001). <i>Surface Science</i> , 2004, 566-568, 719-722.	1.9	1
53	Mechanism of transition metal interaction with graphene sheet reflected in its plasmonic excitations: Effect of gas adsorption phenomena studied by a combination of solid state and molecular orbital approaches. <i>Applied Surface Science</i> , 2021, 554, 149585.	6.1	1
54	Chemisorption of a p-adsorbate on perovskites. <i>Physica B: Condensed Matter</i> , 1994, 193, 39-44.	2.7	0

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55	Theoretical investigation of charge accumulation layer on the Bi-induced InAs(111)-(2×2) surface. Journal of Applied Physics, 2014, 115, 163702.	2.5	0
56	DFT Characterization of Metallole-Decorated Silicon (001) Surface. Journal of Physical Chemistry C, 2019, 123, 11639-11648.	3.1	0