

Ertugrul Karaca

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34
papers

189
citations

7
h-index

12
g-index

35
ext. papers

271
ext. citations

3
avg, IF

3.33
L-index

#	Paper	IF	Citations
34	Role of Ag ₃ PO ₄ and Fe ₃ O ₄ on the photocatalytic performance of magnetic Ag ₃ PO ₄ /ZnO/Fe ₃ O ₄ nanocomposite under visible light irradiation. <i>Solar Energy</i> , 2018 , 166, 308-316	6.8	41
33	Ab initio investigation of BCS-type superconductivity in LuNi ₂ B ₂ C-type superconductors. <i>Physical Review B</i> , 2015 , 92,	3.3	30
32	Effects of spin-orbit coupling on the electron-phonon superconductivity in the cubic Laves-phase compounds CaIr ₂ and CaRh ₂ . <i>Physical Review B</i> , 2017 , 96,	3.3	11
31	Electron-phonon superconductivity in the ternary phosphides BaM ₂ P ₂ (M=Ni,Rh,and Ir). <i>Physical Review B</i> , 2016 , 94,	3.3	9
30	Electron-phonon superconductivity in the filled skutterudites LaRu ₄ P ₁₂ , LaRu ₄ As ₁₂ , and LaPt ₄ Ge ₁₂ . <i>Physical Review B</i> , 2017 , 95,	3.3	9
29	Dielectric, magnetic and humidity properties of Mg ₂ Zn _{1-x} Ir ferrites. <i>Journal of Alloys and Compounds</i> , 2020 , 836, 155318	5.7	7
28	Electron-phonon interaction and superconductivity in the borocarbide superconductor. <i>Philosophical Magazine</i> , 2017 , 97, 2669-2688	1.6	7
27	Ab initio investigation of spin orbit coupling effect on the physical properties of IrGe superconductor. <i>Intermetallics</i> , 2019 , 106, 107-114	3.5	6
26	Theoretical investigation of antisymmetric spin-orbit coupling effect on the physical properties of noncentrosymmetric BaPtSb superconductor. <i>Intermetallics</i> , 2019 , 108, 109-116	3.5	6
25	Physical properties and superconductivity of Heusler compound LiGa ₂ Rh: A first-principles calculation. <i>Solid State Communications</i> , 2020 , 311, 113859	1.6	6
24	Investigating the normal state and superconducting state properties of orthorhombic and hexagonal ZrRuP: A first-principles study. <i>Physical Review B</i> , 2019 , 100,	3.3	6
23	Theoretical investigation of superconductivity in SrAuSi ₃ and SrAu ₂ Si ₂ . <i>Journal of Physics and Chemistry of Solids</i> , 2016 , 95, 65-73	3.9	6
22	Theoretical investigation of electron-phonon interaction in the orthorhombic phase of Mo ₂ C. <i>Journal of Alloys and Compounds</i> , 2019 , 788, 842-851	5.7	6
21	First-principles investigation of superconductivity in the body-centred tetragonal. <i>Philosophical Magazine</i> , 2016 , 96, 2059-2073	1.6	5
20	Role of spin-orbit coupling in the physical properties of LaX ₃ (X=In, P, Bi) superconductors. <i>Physical Review B</i> , 2018 , 97,	3.3	5
19	Theoretical investigation of superconductivity in SrPd ₂ Ge ₂ , SrPd ₂ As ₂ , and CaPd ₂ As ₂ . <i>Physical Review B</i> , 2016 , 93,	3.3	4
18	Electron-phonon interaction and superconductivity in the multiband superconductor Bi ₂ Pd. <i>Intermetallics</i> , 2017 , 84, 136-141	3.5	3

17	Physical properties of the body-centred tetragonal. <i>Philosophical Magazine</i> , 2017 , 97, 1866-1883	1.6	3
16	Theoretical investigation of superconductivity in ternary silicide NaAlSi with layered diamond-like structure. <i>Philosophical Magazine</i> , 2016 , 96, 1006-1019	1.6	3
15	Ab initio calculations of surface phonons of the hydrogen-terminated Si(110)-(1 × 1) surface. <i>Surface Science</i> , 2016 , 647, 17-25	1.8	3
14	Physical properties of hexagonal BaPtAs with noncentrosymmetric SrPtSb-type and centrosymmetric YPtAs-type crystal structures: Effects of spin-orbit coupling. <i>Physical Review B</i> , 2019 , 100,	3.3	2
13	Electron-phonon interaction and superconductivity in the. <i>Philosophical Magazine</i> , 2017 , 97, 128-143	1.6	2
12	Electron-Phonon Interaction and Superconductivity in Hexagonal Ternary Carbides Nb ₂ AC (A: Al, S, Ge, As and Sn). <i>Electronic Structure</i> ,	2.6	2
11	Probing physical properties and superconductivity of noncentrosymmetric superconductors LaPtGe and LaPtGe ₃ : A first-principles study. <i>Computational Materials Science</i> , 2020 , 185, 109949	3.2	2
10	Ab initio investigation of electron-phonon interaction in LaSn ₃ and CaSn ₃ . <i>Philosophical Magazine Letters</i> , 2018 , 98, 375-391	1	2
9	Theoretical investigation of superconductivity mechanism in the filled skutterudites YRu ₄ P ₁₂ , YO ₄ P ₁₂ , LaOs ₄ As ₁₂ and LaOs ₄ As ₁₂ . <i>Journal of Physics and Chemistry of Solids</i> , 2019 , 130, 197-209	3.9	1
8	Probing the electron-phonon interaction in superconductivity for KSn ₂ using the Migdal-Eliashberg theory and linear-response theory. <i>Philosophical Magazine Letters</i> , 2020 , 100, 33-54	1	1
7	Probing the physical and superconducting properties of hexagonal ZrRuAs: A first-principles calculation. <i>Physica C: Superconductivity and Its Applications</i> , 2020 , 577, 1353715	1.3	1
6	Theoretical investigation of the superconductivity mechanism of BaIr ₂ As ₂ . <i>Physica C: Superconductivity and Its Applications</i> , 2019 , 563, 42-47	1.3	0
5	First-principles calculations of physical properties and superconductivity of orthorhombic Mo ₂ BC and Nb ₂ BN. <i>Journal of Applied Physics</i> , 2021 , 130, 153902	2.5	0
4	Ab initio investigation of superconductivity in orthorhombic MgPtSi. <i>Journal of Alloys and Compounds</i> , 2016 , 673, 302-308	5.7	0
3	A first-principles investigation of physical properties and superconductivity of NbPS. <i>Solid State Sciences</i> , 2020 , 103, 106183	3.4	
2	The effect of spin-orbit interaction on superconductivity in the filled skutterudites MPt ₄ Ge ₁₂ (M=Ba, Sr and Th). <i>Philosophical Magazine</i> , 2020 , 100, 2735-2758	1.6	
1	Impact of spin-orbit coupling on the physical properties and superconductivity of Ir-rich superconductor Mg ₂ Ir ₃ Si: A first-principles investigation. <i>Journal of Physics and Chemistry of Solids</i> , 2021 , 153, 110030	3.9	