

Klaus Zollner

List of Publications by Year in descending order

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Version: 2024-02-01

21
papers

871
citations

516561

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21
docs citations

21
times ranked

943
citing authors

#	ARTICLE	IF	CITATIONS
1	Connections between spin-orbit torques and unidirectional magnetoresistance in ferromagnetic-metal/heavy-metal heterostructures. Physical Review B, 2022, 105, .	1.1	8
2	Engineering Proximity Exchange by Twisting: Reversal of Ferromagnetic and Emergence of Antiferromagnetic Dirac Bands in Graphene/Cr ₂ Se ₃ . Physical Review Letters, 2022, 128, 106401.	2.9	18
3	Proximity spin-orbit and exchange coupling in ABA and ABC trilayer graphene van der Waals heterostructures. Physical Review B, 2022, 105, .	1.1	12
4	Heterostructures of Graphene and Topological Insulators Bi ₂ Se ₃ , Bi ₂ Te ₃ , and Sb ₂ Te ₃ . Physica Status Solidi (B): Basic Research, 2021, 258, 2000081.	0.7	19
5	Graphene on two-dimensional hexagonal BN, AlN, and GaN: Electronic, spin-orbit, and spin relaxation properties. Physical Review B, 2021, 103, .	1.1	18
6	All-electrical creation and control of spin-galvanic signal in graphene and molybdenum ditelluride heterostructures at room temperature. Communications Physics, 2021, 4, .	2.0	20
7	Bilayer graphene encapsulated within monolayers of WS ₂ or Cr ₂ Te ₃ : Tunable proximity spin-orbit or exchange coupling. Physical Review B, 2021, 104, .	1.1	15
8	Twist-angle dependent proximity induced spin-orbit coupling in graphene/transition metal dichalcogenide heterostructures. Physical Review B, 2021, 104, .	1.1	44
9	Magnetic proximity in a van der Waals heterostructure of magnetic insulator and graphene. 2D Materials, 2020, 7, 015026.	2.0	80
10	Swapping Exchange and Spin-Orbit Coupling in 2D van der Waals Heterostructures. Physical Review Letters, 2020, 125, 196402.	2.9	32
11	Proximity Spin-Orbit Torque on a Two-Dimensional Magnet within van der Waals Heterostructure: Current-Driven Antiferromagnet-to-Ferromagnet Reversible Nonequilibrium Phase Transition in Bilayer Cr ₃ . Nano Letters, 2020, 20, 2288-2295.	4.5	89
12	Quantum Anomalous Hall Effects in Graphene from Proximity-Induced Uniform and Staggered Spin-Orbit and Exchange Coupling. Physical Review Letters, 2020, 124, 136403.	2.9	67
13	Giant proximity exchange and valley splitting in transition metal dichalcogenide/hBN/graphene van der Waals heterostructures. Scattering induced and highly tunable by gate-damping-like spin-orbit torque in graphene doubly proximitized by two-dimensional magnet. Physical Review Letters, 2020, 125, 196402.	4.1	34
14	Scattering induced and highly tunable by gate-damping-like spin-orbit torque in graphene doubly proximitized by two-dimensional magnet Cr ₂ Ge ₂ Te ₆ and monolayer FeGe ₂ . Physical Review Materials, 2020, 4, .	1.3	29
15	Electronic and magnetic properties of FeGe ₂ films embedded in vertical spin valve devices. Physical Review Materials, 2020, 4, .	0.9	1
16	Proximity exchange effects in MoSe ₂ and WSe ₂ heterostructures with Cr ₂ Te ₃ . Physical Review Letters, 2020, 125, 196402.	1.1	113
17	Strain-tunable orbital, spin-orbit, and optical properties of monolayer transition-metal dichalcogenides. Physical Review B, 2019, 100, .	1.1	91
18	Single and bilayer graphene on the topological insulator Bi ₂ Se ₃ : Electronic and spin-orbit properties from first principles. Physical Review B, 2019, 100, .	1.1	20

#	ARTICLE	IF	CITATIONS
19	Heterostructures of graphene and hBN: Electronic, spin-orbit, and spin relaxation properties from first principles. <i>Physical Review B</i> , 2019, 99, .	1.1	47
20	Electrically tunable exchange splitting in bilayer graphene on monolayer $\text{Cr}_2\text{X}_2\text{Te}_6$ with X = Ge, Si, and Sn. <i>New Journal of Physics</i> , 2018, 20, 073007.	1.2	43
21	Theory of proximity-induced exchange coupling in graphene on hBN/(Co, Ni). <i>Physical Review B</i> , 2016, 94, .	1.1	74