

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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713332

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times ranked

943
citing authors

#	ARTICLE	IF	CITATIONS
1	Proximity exchange effects in MoSe_2 and WSe_2 heterostructures with CrI_3	1.1	113
2	Strain-tunable orbital, spin-orbit, and optical properties of monolayer transition-metal dichalcogenides. <i>Physical Review B</i> , 2019, 100, .	1.1	91
3	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 CrI_3 . <i>Nano Letters</i> , 2020, 20, 2288-2295.	4.5	89
4	Magnetic proximity in a van der Waals heterostructure of magnetic insulator and graphene. <i>2D Materials</i> , 2020, 7, 015026.	2.0	80
5	Theory of proximity-induced exchange coupling in graphene on hBN/(Co, Ni). <i>Physical Review B</i> , 2016, 94, .	1.1	74
6	Quantum Anomalous Hall Effects in Graphene from Proximity-Induced Uniform and Staggered Spin-Orbit and Exchange Coupling. <i>Physical Review Letters</i> , 2020, 124, 136403.	2.9	67
7	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
8	Twist-angle dependent proximity induced spin-orbit coupling in graphene/transition metal dichalcogenide heterostructures. <i>Physical Review B</i> , 2021, 104, .	1.1	44
9	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
10	Swapping Exchange and Spin-Orbit Coupling in 2D van der Waals Heterostructures. <i>Physical Review Letters</i> , 2020, 125, 196402.	2.9	32
11	Giant proximity exchange and valley splitting in transition metal dichalcogenide/graphene heterostructures induced and highly tunable by gate-damping-like spin-orbit torque in graphene doubly proximitized by two-dimensional magnet	4.1	31
12	$\text{Cr}_2\text{Ge}_2\text{Te}_6$ and monolayer CrI_3	1.3	29
13	Single and bilayer graphene on the topological insulator Bi_2Se_3 : Electronic and spin-orbit properties from first principles. <i>Physical Review B</i> , 2019, 100, .	1.1	20
14	All-electrical creation and control of spin-galvanic signal in graphene and molybdenum ditelluride heterostructures at room temperature. <i>Communications Physics</i> , 2021, 4, .	2.0	20
15	Heterostructures of Graphene and Topological Insulators Bi_2Se_3 , Bi_2Te_3 , and Sb_2Te_3 . <i>Physica Status Solidi (B): Basic Research</i> , 2021, 258, 2000081.	0.7	19
16	Graphene on two-dimensional hexagonal BN, AlN, and GaN: Electronic, spin-orbit, and spin relaxation properties. <i>Physical Review B</i> , 2021, 103, .	1.1	18
17	Engineering Proximity Exchange by Twisting: Reversal of Ferromagnetic and Emergence of Antiferromagnetic Dirac Bands in Graphene/ CrI_3 Bilayer graphene encapsulated within monolayers of WS_2 or CrI_3	2.9	18
18	Tunable proximity spin-orbit or exchange coupling. <i>Physical Review B</i> , 2021, 104, .	1.1	15

#	ARTICLE	IF	CITATIONS
19	Proximity spin-orbit and exchange coupling in ABA and ABC trilayer graphene van der Waals heterostructures. Physical Review B, 2022, 105, .	1.1	12
20	Connections between spin-orbit torques and unidirectional magnetoresistance in ferromagnetic-metal/heavy-metal heterostructures. Physical Review B, 2022, 105, .	1.1	8
21	Electronic and magnetic properties of FeGe_2 films embedded in vertical spin valve devices. Physical Review Materials, 2020, 4, .	0.9	1