

# Shu-guang Cheng

## List of Publications by Year in descending order

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19  
papers

351  
citations

1305906

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889612

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g-index

19  
all docs

19  
docs citations

19  
times ranked

379  
citing authors

#	ARTICLE	IF	CITATIONS
1	Topological kink states in graphene. <i>Nanotechnology</i> , 2021, 32, 402001.	1.3	6
2	Quantum Spin-Valley Hall Kink States: From Concept to Materials Design. <i>Physical Review Letters</i> , 2021, 127, 116402.	2.9	25
3	The realization of quantum anomalous Hall effect in two dimensional electron gas. <i>Journal of Physics Condensed Matter</i> , 2021, 33, 105701.	0.7	1
4	Quantum Hall effect in wedge-shaped samples. <i>Physical Review B</i> , 2020, 102, .	1.1	8
5	Majorana zero modes from topological kink states in the two-dimensional electron gas. <i>Physical Review B</i> , 2020, 101, .	1.1	4
6	Engineering a topological quantum dot device through planar magnetization in bismuthene. <i>Physical Review B</i> , 2019, 99, .	1.1	6
7	Perfect valley filter based on a topological phase in a disordered Sb monolayer heterostructure. <i>Physical Review B</i> , 2018, 97, .	1.1	17
8	Magnetic field mediated conductance oscillation in graphene p-n junctions. <i>Journal of Physics Condensed Matter</i> , 2018, 30, 165301.	0.7	2
9	The electronic transport efficiency of a graphene charge carrier guider and an Aharonov-Bohm interferometer. <i>Journal of Physics Condensed Matter</i> , 2018, 30, 485302.	0.7	3
10	Manipulation and Characterization of the Valley-Polarized Topological Kink States in Graphene-Based Interferometers. <i>Physical Review Letters</i> , 2018, 121, 156801.	2.9	36
11	Investigation of valley-resolved transmission through gate defined graphene carrier guiders. <i>Journal of Physics Condensed Matter</i> , 2017, 29, 145301.	0.7	4
12	The valley filter efficiency of monolayer graphene and bilayer graphene line defect model. <i>New Journal of Physics</i> , 2016, 18, 103024.	1.2	29
13	Effects of intervalley scattering on the transport properties in one-dimensional valleytronic devices. <i>Scientific Reports</i> , 2016, 6, 23211.	1.6	16
14	The Andreev reflection of zero line mode in graphene-superconductor hybrid junction. <i>Journal of Physics Condensed Matter</i> , 2015, 27, 125002.	0.7	1
15	The quantum anomalous Hall effect in a topological insulator thin film - The role of magnetic disorder. <i>Europhysics Letters</i> , 2014, 105, 57004.	0.7	8
16	Electronic transport through a graphene-based ferromagnetic/normal/ferromagnetic junction. <i>Journal of Physics Condensed Matter</i> , 2010, 22, 035301.	0.7	27
17	Transport properties of monolayer and bilayer graphene p-n junctions with charge puddles in the quantum Hall regime. <i>Journal of Physics Condensed Matter</i> , 2010, 22, 465301.	0.7	7
18	Controllable Andreev Retroreflection and Specular Andreev Reflection in a Four-Terminal Graphene-Superconductor Hybrid System. <i>Physical Review Letters</i> , 2009, 103, 167003.	2.9	71

#	ARTICLE	IF	CITATIONS
19	Spin Nernst effect and Nernst effect in two-dimensional electron systems. Physical Review B, 2008, 78, .	1.1	80