

# Seongshik Oh

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7985902/publications.pdf>

Version: 2024-02-01

107  
papers

6,302  
citations

101384

36  
h-index

66788

78  
g-index

109  
all docs

109  
docs citations

109  
times ranked

6525  
citing authors

#	ARTICLE	IF	CITATIONS
1	Terahertz-driven hot Dirac fermion and plasmon dynamics in the bulk-insulating topological insulator $\text{Bi}_2\text{Te}_3$ . Physical Review B, 2022, 105, .	1.1	2
2	Anomalous Hall effect in electrolytically reduced PdCoO <sub>2</sub> thin films. Thin Solid Films, 2022, 751, 139197.	0.8	2
3	Infrared plasmons in ultrahigh conductive PdCoO <sub>2</sub> metallic oxide. Communications Physics, 2022, 5, .	2.0	3
4	Ambipolar magneto-optical response of ultralow carrier density topological insulators. Physical Review B, 2021, 103, .	1.1	3
5	Casimir and electrostatic forces from $\text{Bi}_2\text{Te}_3$ thin films of varying thickness. Physical Review B, 2021, 103, .	2.1	3
6	Effective reduction of $\text{PdCoO}_2$ thin films via hydrogenation and sign tunable anomalous Hall effect. Physical Review Materials, 2021, 5, .	0.9	3
7	Layer-resolved many-electron interactions in delafossite PdCoO <sub>2</sub> from standing-wave photoemission spectroscopy. Communications Physics, 2021, 4, .	2.0	7
8	Spacer-Layer-Tunable Magnetism and High-Field Topological Hall Effect in Topological Insulator Heterostructures. Nano Letters, 2021, 21, 5914-5919.	4.5	3
9	Hybrid Symmetry Epitaxy of the Superconducting Fe(Te,Se) Film on a Topological Insulator. Nano Letters, 2021, 21, 6518-6524.	4.5	9
10	Suppressing carrier density in $\text{Bi}_2\text{Sb}_{1-x}\text{Tj}_x\text{Te}$ . Applied Physics, 2021, 54, 504007.	1.3	4
11	Oxygen Annealing Driven Structural Evolution in PdCoO <sub>2</sub> Films Through Electron Microscopy. Microscopy and Microanalysis, 2020, 26, 612-613.	0.2	0
12	Electron-Hole Asymmetry of Surface States in Topological Insulator Sb <sub>2</sub> Te <sub>3</sub> Thin Films Revealed by Magneto-Infrared Spectroscopy. Nano Letters, 2020, 20, 4588-4593.	4.5	9
13	Correlated plasmons in the topological insulator Bi <sub>2</sub> Se <sub>3</sub> induced by long-range electron correlations. NPG Asia Materials, 2020, 12, .	3.8	11
14	Structurally and chemically compatible BiInSe <sub>3</sub> substrate for topological insulator thin films. Nano Research, 2020, 13, 2541-2545.	5.8	8
15	Terahertz Tuning of Dirac Plasmons in $\text{Bi}_2\text{Te}_3$ Topological Insulator. Physical Review Letters, 2020, 124, 226403.	2.9	2
16	Picosecond Competing Dynamics of Apparent Semiconducting-Metallic Phase Transition in the Topological Insulator $\text{Bi}_2\text{Se}_3$ . ACS Photonics, 2020, 7, 759-764.	3.2	19
17	Pb-doped $\text{Bi}_2\text{Te}_3$ Gate-tunable quantum Hall effects in Defect-Suppressed $\text{Bi}_2\text{Te}_3$ . Physical Review B, 2020, 101, 040401.	0.9	5
18	$\text{Bi}_2\text{S}_3$ films.	1.1	9

#	ARTICLE	IF	CITATIONS
19	Infrared spectroscopy of two-dimensional electron systems. European Physical Journal: Special Topics, 2019, 228, 669-673.	1.2	2
20	Quantum Hall to Insulator Transition in Ultra-Low Carrier Density Topological Insulator Films and a Hidden Phase of the Zeroth Landau Level. Advanced Materials, 2019, 31, e1901091.	11.1	19
21	Observation of optical absorption correlated with surface state of topological insulator. Physical Review B, 2019, 100, 115401.	1.1	5
22	Electronic correlation determining correlated plasmons in Sb-doped $Bi_2Se_3$ topological insulator. Physical Review B, 2019, 100, 115402.	1.1	5
23	Physi Engineering Topological Superlattices and Phase Diagrams. Nano Letters, 2019, 19, 716-721.	4.5	5
24	Record High-Proximity-Induced Anomalous Hall Effect in $(Bi_{1-x}Sb_x)_2Te_3$ Thin Film Grown on CrGeTe <sub>3</sub> Substrate. Nano Letters, 2019, 19, 4567-4573.	4.5	34
25	Absence of strong localization at low conductivity in the topological surface state of low-disorder $Bi_2Se_3$ . Physical Review B, 2019, 99, 115403.	1.1	8
26	Ferromagnetic Anomalous Hall Effect in Cr-Doped $Bi_2Se_3$ Thin Films via Surface-State Engineering. Nano Letters, 2019, 19, 3409-3414.	4.5	13
27	Growth of metallic delafossite $PdCo_2O_3$ by molecular beam epitaxy. Physical Review Materials, 2019, 3, 014001.	0.9	35
28	Electric Control over 2D Dirac Plasmon Resonances in Topological Insulator $Bi_2Se_3$ in Proximity Contact with Graphene. , 2019, , .		0
29	Nonvolatile Solid-State Charged-Polymer Gating of Topological Insulators into the Topological Insulating Regime. Physical Review Applied, 2018, 9, .	1.5	3
30	Control over Electron-Phonon Interaction by Dirac Plasmon Engineering in the $Bi_2Se_3$ Topological Insulator. Nano Letters, 2018, 18, 734-739.	4.5	39
31	Efficient charge-spin conversion and magnetization switching through the Rashba effect at topological-insulator/Ag interfaces. Physical Review B, 2018, 97, .	1.1	53
32	Solution to the Hole-Doping Problem and Tunable Quantum Hall Effect in $Bi_2Se_3$ Thin Films. Nano Letters, 2018, 18, 820-826.	4.5	29
33	Nonlinear THz Plasmonics in $Bi_2Se_3$ Topological Insulator. , 2018, , .		0
34	Electric field modulated topological magnetoelectric effect in $Bi_2Te_3$ . Physical Review B, 2018, 98, .		13
35	Infrared Spectroscopy of the Topological Surface States of $Bi_2Te_3$ by Use of the Berreman Effect. Physical Review Letters, 2018, 121, 176803.	2.9	6
36	Direct visualization of current-induced spin accumulation in topological insulators. Nature Communications, 2018, 9, 2492.	5.8	30

#	ARTICLE	IF	CITATIONS
37	Highly Sensitive, Gate-Tunable, Room-Temperature Mid-Infrared Photodetection Based on Graphene/Bi <sub>2</sub> Se <sub>3</sub> Heterostructure. ACS Photonics, 2017, 4, 482-488.	3.2	70
38	Terahertz plasmonic excitations in Bi <sub>2</sub> Se <sub>3</sub> topological insulator. Journal of Physics Condensed Matter, 2017, 29, 183002.	0.7	19
39	A novel artificial condensed matter lattice and a new platform for one-dimensional topological phases. Science Advances, 2017, 3, e1501692.	4.7	48
40	Surface vibrational modes of the topological insulator Bi <sub>2</sub> Se <sub>3</sub> observed by Raman spectroscopy. Physical Review B, 2017, 95, .	2.1	18
41	Coexistence of bulk and surface states probed by Shubnikov-de Haas oscillations in Bi <sub>2</sub> Se <sub>3</sub> with high charge-carrier density. Physical Review B, 2017, 96, .	1.9	19
42	Quantized Faraday and Kerr rotation and axion electrodynamics of a 3D topological insulator. Science, 2016, 354, 1124-1127.	6.0	254
43	Surface and interface states of Bi <sub>2</sub> Se <sub>3</sub> thin films investigated by optical second-harmonic generation and terahertz emission. Applied Physics Letters, 2016, 108, 051609.	1.5	12
44	Tuning and stabilizing topological insulator Bi <sub>2</sub> Se <sub>3</sub> in the intrinsic regime by charge extraction with organic overlayers. Applied Physics Letters, 2016, 108, .	1.5	11
45	Finite-Size and Composition-Driven Topological Phase Transition in (Bi <sub>1-x</sub> In <sub>x</sub> ) <sub>2</sub> Se <sub>3</sub> Thin Films. Nano Letters, 2016, 16, 5528-5532.	1.1	19
46	Signature of a topological phase transition in the Josephson supercurrent through a topological insulator. Physical Review B, 2016, 93, .	1.1	33
47	Tunable inverse topological heterostructure utilizing Bi <sub>2</sub> Se <sub>3</sub> and Bi <sub>2</sub> Te <sub>3</sub> . Physical Review B, 2016, 94, 040401.	1.1	21
48	Helicity-Dependent Photovoltaic Effect in Bi <sub>2</sub> Se <sub>3</sub> Under Normal Incident Light. Advanced Optical Materials, 2016, 4, 1642-1650.	3.6	21
49	Strong nonlinear terahertz response induced by Dirac surface states in Bi <sub>2</sub> Se <sub>3</sub> topological insulator. Nature Communications, 2016, 7, 11421.	5.8	124
50	Composition Control of Plasmon-Phonon Interaction Using Topological Quantum-Phase Transition in Photoexcited (Bi <sub>1-x</sub> In <sub>x</sub> ) <sub>2</sub> Se <sub>3</sub> . ACS Photonics, 2016, 3, 1426-1431.	3.2	12
51	Resonance effects in thickness-dependent ultrafast carrier and phonon dynamics of topological insulator Bi <sub>2</sub> Se <sub>3</sub> . Nanotechnology, 2016, 27, 045705.	1.3	13
52	Topologically protected Dirac plasmons and their evolution across the quantum phase transition in a (Bi <sub>1-x</sub> In <sub>x</sub> ) <sub>2</sub> Se <sub>3</sub> topological insulator. Nanoscale, 2016, 8, 7467-7471.	2.8	13
53	Tunable Fano quantum-interference dynamics using a topological phase transition in Bi <sub>2</sub> Se <sub>3</sub> . Physical Review B, 2016, 94, 040401.	1.1	37
54			



#	ARTICLE	IF	CITATIONS
73	Ultrafast terahertz dynamics of hot Dirac-electron surface scattering in the topological insulator $\langle \text{Bi} \rangle \langle \text{Se} \rangle$ Physical Review B, 2014, 89, .	4.5	29
74	Transferring MBE-Grown Topological Insulator Films to Arbitrary Substrates and Metal-Insulator Transition via Dirac Gap. Nano Letters, 2014, 14, 1343-1348.	2.9	101
75	Emergence of Decoupled Surface Transport Channels in Bulk Insulating $\langle \text{Bi} \rangle \langle \text{Se} \rangle$ Films. Physical Review Letters, 2014, 113, 026801.	15.6	332
76	Observation of Dirac plasmons in a topological insulator. Nature Nanotechnology, 2013, 8, 556-560.	6.5	118
77	Mapping the orbital wavefunction of the surface states in three-dimensional topological insulators. Nature Physics, 2013, 9, 499-504.	6.0	44
78	The Complete Quantum Hall Trio. Science, 2013, 340, 153-154.	1.1	23
79	Dirac cone shift of a passivated topological $\langle \text{Bi} \rangle \langle \text{Se} \rangle$ Physical Review B, 2013, 87, .	6.5	206
80	A sudden collapse in the transport lifetime across the topological phase transition in $(\text{Bi}_{1-x}\text{In}_x)_2\text{Se}_3$ . Nature Physics, 2013, 9, 410-414.	1.1	29
81	Aging and reduced bulk conductance in thin films of the topological insulator $\text{Bi}_2\text{Se}_3$ . Journal of Applied Physics, 2013, 113, .	1.5	32
82	Conductance modulation in topological insulator $\text{Bi}_2\text{Se}_3$ thin films with ionic liquid gating. Applied Physics Letters, 2013, 103, .	1.1	15
83	Topological-Metal to Band-Insulator Transition in $\langle \text{Bi} \rangle \langle \text{Se} \rangle$ Physical Review B, 2012, 86, .	2.9	306
84	Giant plateau in the terahertz Faraday angle in gated $\langle \text{Bi} \rangle \langle \text{Se} \rangle$ Physical Review B, 2012, 86, .	2.9	201
85	Thickness-Independent Transport Channels in Topological Insulator $\langle \text{Bi} \rangle \langle \text{Se} \rangle$ Films. Physical Review Letters, 2012, 109, 116804.	1.5	73
86	Terahertz Response and Colossal Kerr Rotation from the Surface States of the Topological Insulator $\langle \text{Bi} \rangle \langle \text{Se} \rangle$ Physical Review Letters, 2012, 108, 087403.	1.1	27
87	Surface versus bulk state in topological insulator $\text{Bi}_2\text{Se}_3$ under environmental disorder. Applied Physics Letters, 2011, 99, .	0.8	180
88	<i>In situ</i> study of emerging metallicity on ion-bombarded $\text{SrTiO}_3$ surface. Journal of Applied Physics, 2011, 110, .	1.5	14
89	Epitaxial growth of topological insulator $\text{Bi}_2\text{Se}_3$ film on $\text{Si}(111)$ with atomically sharp interface. Thin Solid Films, 2011, 520, 224-229.		
90	Efficient resistive memory effect on $\text{SrTiO}_3$ by ionic-bombardment. Applied Physics Letters, 2011, 99, 092105.		

#	ARTICLE	IF	CITATIONS
91	Thickness-dependent bulk properties and weak antilocalization effect in topological insulator $\text{Bi}_{1-x}\text{Sb}_x$ $\text{Se}$	1.1	270
92	Sr flux stability against oxidation in oxide-molecular-beam-epitaxy environment: Flux, geometry, and pressure dependence. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2010, 28, 271-276.	0.9	22
93	Crucible aperture: An effective way to reduce source oxidation in oxide molecular beam epitaxy process. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2010, 28, 600-602.	0.9	16
94	Epitaxial growth of rhenium with sputtering. Thin Solid Films, 2006, 496, 389-394.	0.8	14
95	Doping Controlled Superconductor-Insulator Transition in $\text{Bi}_2\text{Sr}_{2-x}\text{La}_x\text{CaCu}_2\text{O}_{8+\delta}$ . Physical Review Letters, 2006, 96, 107003.	2.9	37
96	Infinite-layer $(\text{Ca}_{1-x}\text{Sr}_x\text{CuO}_2)$ film growth by molecular beam epitaxy and effect of hole doping. Thin Solid Films, 2005, 483, 301-305.	0.8	11
97	Low-leakage superconducting tunnel junctions with a single-crystal $\text{Al}_2\text{O}_3$ barrier. Superconductor Science and Technology, 2005, 18, 1396-1399.	1.8	25
98	Spatially selective and reversible doping control in cuprate films. Applied Physics Letters, 2005, 87, 231911.	1.5	3
99	Simultaneous State Measurement of Coupled Josephson Phase Qubits. Science, 2005, 307, 1299-1302.	6.0	263
100	Decoherence in Josephson Qubits from Dielectric Loss. Physical Review Letters, 2005, 95, 210503.	2.9	616
101	Observation of Quantum Oscillations between a Josephson Phase Qubit and a Microscopic Resonator Using Fast Readout. Physical Review Letters, 2004, 93, 180401.	2.9	189
102	Pairing symmetry in $\text{Bi}_2\text{Sr}_2\text{Ca}_1\text{Cu}_2\text{O}_{8+x}$ . Europhysics Letters, 2003, 64, 489-495.	0.7	7
103	Probing unconventional superconducting symmetries using Josephson interferometry. Physica C: Superconductivity and Its Applications, 2002, 368, 261-266.	0.6	5
104	Defect scattering in high $T_c$ and colossal magnetoresistive tunnel junctions. Physica C: Superconductivity and Its Applications, 2000, 335, 184-189.	0.6	3
105	Colossal magnetoresistance magnetic tunnel junctions grown by molecular-beam epitaxy. Applied Physics Letters, 2000, 76, 1914-1916.	1.5	96
106	Nodal Quasiparticle Lifetime in the Superconducting State of $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+\delta}$ . Physical Review Letters, 2000, 85, 2569-2572.	2.9	105
107	Signature of Superfluid Density in the Single-Particle Excitation Spectrum of $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+\delta}$ . Science, 2000, 289, 277-281.	6.0	240