

Tony Low

List of Publications by Year in descending order

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169
papers

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citations

31949

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17090

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174
docs citations

174
times ranked

16352
citing authors

#	ARTICLE	IF	CITATIONS
1	Bipolar Electric-Field Switching of Perpendicular Magnetic Tunnel Junctions through Voltage-Controlled Exchange Coupling. Nano Letters, 2022, 22, 622-629.	4.5	15
2	Efficient domain wall motion in asymmetric magnetic tunnel junctions with vertical current flow. Journal of Magnetism and Magnetic Materials, 2022, 549, 168949.	1.0	0
3	Gate tunable light-matter interaction in natural biaxial hyperbolic van der Waals heterostructures. Nanophotonics, 2022, 11, 2329-2340.	2.9	22
4	Methodological framework for materials discovery using machine learning. Physical Review Materials, 2022, 6, .	0.9	3
5	Enhancement of voltage controlled magnetic anisotropy (VCMA) through electron depletion. Journal of Applied Physics, 2022, 131, .	1.1	6
6	Convert Widespread Paraelectric Perovskite to Ferroelectrics. Physical Review Letters, 2022, 128, .	2.9	5
7	Twisted Two-Dimensional Material Stacks for Polarization Optics. Physical Review Letters, 2022, 128, .	2.9	8
8	Observation of chiral and slow plasmons in twisted bilayer graphene. Nature, 2022, 605, 63-68.	13.7	45
9	ZrTe ₂ /CrTe ₂ : an epitaxial van der Waals platform for spintronics. Nature Communications, 2022, 13, .	5.8	32
10	Spatially composition-graded monolayer tungsten selenium telluride. Applied Physics Letters, 2022, 120, 231903.	1.5	0
11	Gate-tunable giant tunneling electroresistance in van der Waals ferroelectric tunneling junctions. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2022, 283, 115829.	1.7	4
12	Optical interface engineering with on-demand magnetic surface conductivities. Physical Review B, 2022, 106, .	1.1	5
13	Near-field probing of image phonon-polaritons in hexagonal boron nitride on gold crystals. Science Advances, 2022, 8, .	4.7	13
14	Toggling Near-Field Directionality via Polarization Control of Surface Waves. Laser and Photonics Reviews, 2021, 15, 2000388.	4.4	17
15	Real-space imaging of acoustic plasmons in large-area graphene grown by chemical vapor deposition. Nature Communications, 2021, 12, 938.	5.8	33
16	Resonant tunnelling diodes based on twisted black phosphorus homostructures. Nature Electronics, 2021, 4, 269-276.	13.1	41
17	Giant Anomalous Hall Effect due to Double-Degenerate Quasiflat Bands. Physical Review Letters, 2021, 126, 106601.	2.9	16
18	Hybridized Radial and Edge Coupled 3D Plasmon Modes in Self-Assembled Graphene Nanocylinders. Small, 2021, 17, e2100079.	5.2	8

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19	Signatures of subband excitons in few-layer black phosphorus. <i>Physical Review B</i> , 2021, 103, .	1.1	6
20	Graphene Nanocylinders: Hybridized Radial and Edge Coupled 3D Plasmon Modes in Self-Assembled Graphene Nanocylinders (Small 14/2021). <i>Small</i> , 2021, 17, 2170064.	5.2	0
21	Ultracompact electro-optic waveguide modulator based on a graphene-covered $\hat{\nu}$ /1000 plasmonic nanogap. <i>Optics Express</i> , 2021, 29, 13852.	1.7	4
22	Tunable large Berry dipole in strained twisted bilayer graphene. <i>Physical Review B</i> , 2021, 103, .	1.1	31
23	Emerging chiral optics from chiral interfaces. <i>Physical Review B</i> , 2021, 103, .	1.1	10
24	Simple linear response model for predicting energy band alignment of two-dimensional vertical heterostructures. <i>Physical Review B</i> , 2021, 103, .	1.1	2
25	Current-induced torques in magnetic Weyl semimetal tunnel junctions. <i>Physical Review B</i> , 2021, 103, .	1.1	3
26	Nanophotonic biosensors harnessing van der Waals materials. <i>Nature Communications</i> , 2021, 12, 3824.	5.8	88
27	Gigantic tunneling magnetoresistance in magnetic Weyl semimetal tunnel junctions. <i>Physical Review B</i> , 2021, 104, .	1.1	4
28	Broadband focusing of acoustic plasmons in graphene with an applied current. <i>Physical Review B</i> , 2021, 104, .	1.1	1
29	Polaritonic Vortices with a Half-Integer Charge. <i>Nano Letters</i> , 2021, 21, 9256-9261.	4.5	13
30	Accessing the Exceptional Points in a Graphene Plasmon-Vibrational Mode Coupled System. <i>ACS Photonics</i> , 2021, 8, 3241-3248.	3.2	10
31	Boosting quantum yields in two-dimensional semiconductors via proximal metal plates. <i>Nature Communications</i> , 2021, 12, 7095.	5.8	20
32	A perspective of twisted photonic structures. <i>Applied Physics Letters</i> , 2021, 119, .	1.5	23
33	Transition Metal-Free Half-Metallicity in Two-Dimensional Gallium Nitride with a Quasi-Flat Band. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 12150-12156.	2.1	3
34	Complete Complex Amplitude Modulation with Electronically Tunable Graphene Plasmonic Metamolecules. <i>ACS Nano</i> , 2020, 14, 1166-1175.	7.3	65
35	Nonretarded edge plasmon-polaritons in anisotropic two-dimensional materials. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2020, 53, 055201.	0.7	5
36	Image polaritons in boron nitride for extreme polariton confinement with low losses. <i>Nature Communications</i> , 2020, 11, 3649.	5.8	56

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37	Engineering valley quantum interference in anisotropic van der Waals heterostructures. Physical Review B, 2020, 102, .	1.1	9
38	Optical control of ferroelectric switching and multifunctional devices based on van der Waals ferroelectric semiconductors. Nanoscale, 2020, 12, 23488-23496.	2.8	49
39	Visualization and Manipulation of Bilayer Graphene Quantum Dots with Broken Rotational Symmetry and Nontrivial Topology. Nano Letters, 2020, 20, 8682-8688.	4.5	20
40	Plasmon-Enhanced Near-Field Chirality in Twisted van der Waals Heterostructures. Nano Letters, 2020, 20, 8711-8718.	4.5	21
41	Chiral Plasmons with Twisted Atomic Bilayers. Physical Review Letters, 2020, 125, 077401.	2.9	51
42	Bandgap engineering of two-dimensional semiconductor materials. Npj 2D Materials and Applications, 2020, 4, .	3.9	528
43	Plasmons and screening in finite-bandwidth two-dimensional electron gas. Physical Review B, 2020, 102, .	1.1	7
44	Hyperbolicity in two-dimensional transition metal ditellurides induced by electronic bands nesting. Physical Review B, 2020, 102, .	1.1	15
45	Ferromagnetic phase of the spinel compound MgV_2O_4 and its spintronics properties. Physical Review B, 2020, 102, .	1.1	6
46	Broadband enhancement of on-chip single-photon extraction via tilted hyperbolic metamaterials. Applied Physics Reviews, 2020, 7, 021403.	5.5	36
47	Strain-engineered high-responsivity MoTe ₂ photodetector for silicon photonic integrated circuits. Nature Photonics, 2020, 14, 578-584.	15.6	172
48	Magnetic Weyl semimetals with diamond structure realized in spinel compounds. Physical Review B, 2020, 101, .	1.1	27
49	Programmable Metamaterials for Software-Defined Electromagnetic Control: Circuits, Systems, and Architectures. IEEE Journal on Emerging and Selected Topics in Circuits and Systems, 2020, 10, 6-19.	2.7	56
50	Topological Band Engineering of Lieb Lattice in Phthalocyanine-Based Metal-Organic Frameworks. Nano Letters, 2020, 20, 1959-1966.	4.5	43
51	Bidirectional switching assisted by interlayer exchange coupling in asymmetric magnetic tunnel junctions. Physical Review B, 2020, 101, .	1.1	7
52	Plasmonic Gas Sensing with Graphene Nanoribbons. Physical Review Applied, 2020, 13, .	1.5	25
53	Guest Editorial: Programmable Metamaterials for Software-Defined Electromagnetic Control. IEEE Journal on Emerging and Selected Topics in Circuits and Systems, 2020, 10, 1-5.	2.7	0
54	Mid-infrared Polarized Emission from Black Phosphorus Light-Emitting Diodes. Nano Letters, 2020, 20, 3651-3655.	4.5	69

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55	The 2021 quantum materials roadmap. JPhys Materials, 2020, 3, 042006.	1.8	111
56	Large-scale interlayer rotations and Te grain boundaries in thin films. Physical Review Materials, 2020, 4, .	1.09	10
57	Tunable plasmon-phonon polaritons in anisotropic 2D materials on hexagonal boron nitride. Nanophotonics, 2020, 9, 3909-3920.	2.9	24
58	A Thin Film Black Phosphorus Light-Emitting Diode. , 2020, , .		0
59	Chiral and hyperbolic plasmons in novel 2-D materials. , 2019, , 119-138.		2
60	Tuning Two-Dimensional Hyperbolic Plasmons in Black Phosphorus. Physical Review Applied, 2019, 12, .	1.5	59
61	MoTe ₂ Lateral Homojunction Field-Effect Transistors Fabricated using Flux-Controlled Phase Engineering. ACS Nano, 2019, 13, 8035-8046.	7.3	75
62	Electron and hole transport in disordered monolayer MoS ₂ : Atomic vacancy induced short-range and Coulomb disorder scattering. Physical Review B, 2019, 100, .	1.1	20
63	Controlling photonic spin Hall effect via exceptional points. Physical Review B, 2019, 100, .	1.1	55
64	Giant Enhancement of Photoluminescence Emission in WS ₂ -Two-Dimensional Perovskite Heterostructures. Nano Letters, 2019, 19, 4852-4860.	4.5	72
65	Topological nonlinear anomalous Nernst effect in strained transition metal dichalcogenides. Physical Review B, 2019, 99, .	1.1	44
66	Switchable and unidirectional plasmonic beacons in hyperbolic two-dimensional materials. Physical Review B, 2019, 99, .	1.1	27
67	Nanoscale electronic devices based on transition metal dichalcogenides. 2D Materials, 2019, 6, 032004.	2.0	51
68	Topological band evolution between Lieb and kagome lattices. Physical Review B, 2019, 99, .	1.1	66
69	Gas identification with graphene plasmons. Nature Communications, 2019, 10, 1131.	5.8	154
70	Phonon-assisted carrier transport through a lattice-mismatched interface. NPG Asia Materials, 2019, 11, .	3.8	5
71	Graphene acoustic plasmon resonator for ultrasensitive infrared spectroscopy. Nature Nanotechnology, 2019, 14, 313-319.	15.6	210
72	Graphene Plasmonic Metasurface for Beam Forming and Gas Sensing. , 2019, , .		1

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73	Group velocity controlled and gate-tunable directional excitation of polaritons in graphene-boron nitride heterostructures. Laser and Photonics Reviews, 2018, 12, 1800049.	0.9	12
74	Nanomaterial-based Plasmon-enhanced Infrared Spectroscopy. Advanced Materials, 2018, 30, e1704896.	11.1	124
75	Group velocity controlled and gate-tunable directional excitation of polaritons in graphene-boron nitride heterostructures. Laser and Photonics Reviews, 2018, 12, 1800049.	4.4	51
76	Ultrafast Graphene Light Emitters. Nano Letters, 2018, 18, 934-940.	4.5	109
77	Tunable Graphene Metasurface Reflectarray for Cloaking, Illusion, and Focusing. Physical Review Applied, 2018, 9, .	1.5	93
78	Determination of layer-dependent exciton binding energies in few-layer black phosphorus. Science Advances, 2018, 4, eaap9977.	4.7	122
79	Anisotropic Acoustic Plasmons in Black Phosphorus. ACS Photonics, 2018, 5, 2208-2216.	3.2	54
80	Ultra-compact Amplitude Modulator by Coupling Hyperbolic Polaritons over a Graphene-Covered Gap. ACS Photonics, 2018, 5, 544-551.	3.2	13
81	Direct Investigation of the Birefringent Optical Properties of Black Phosphorus with Picosecond Interferometry. Advanced Optical Materials, 2018, 6, 1700831.	3.6	9
82	Anomalous Temperature Dependence in Metal-Black Phosphorus Contact. Nano Letters, 2018, 18, 26-31.	4.5	25
83	Group velocity controlled and gate-tunable directional excitation of polaritons in graphene-boron nitride heterostructures (Laser Photonics Rev. 12(5)/2018). Laser and Photonics Reviews, 2018, 12, 1870024.	4.4	2
84	Controlled p-type substitutional doping in large-area monolayer WSe ₂ crystals grown by chemical vapor deposition. Nanoscale, 2018, 10, 21374-21385.	2.8	58
85	Manipulating Light with 2D Materials. , 2018, , .		0
86	Spatially controlled electrostatic doping in graphene p-i-n junction for hybrid silicon photodiode. Npj 2D Materials and Applications, 2018, 2, .	3.9	31
87	Berry curvature dipole current in the transition metal dichalcogenides family. Physical Review B, 2018, 98, .	1.1	121
88	Enhanced interlayer neutral excitons and trions in trilayer van der Waals heterostructures. Npj 2D Materials and Applications, 2018, 2, .	3.9	44
89	Electrical control of excitons in van der Waals heterostructures with type-II band alignment. Physical Review B, 2018, 98, .	1.1	21
90	Temporal control of graphene plasmons. Physical Review B, 2018, 98, .	1.1	21

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91	Room-temperature high spin-orbit torque due to quantum confinement in sputtered BixSe(1-x) films. Nature Materials, 2018, 17, 800-807.	13.3	344
92	Superluminal plasmons with resonant gain in population inverted bilayer graphene. Physical Review B, 2018, 98, .	1.1	26
93	Tin monochalcogenide heterostructures as mechanically rigid infrared band gap semiconductors. Physical Review Materials, 2018, 2, .	0.9	12
94	Infrared fingerprints of few-layer black phosphorus. Nature Communications, 2017, 8, 14071.	5.8	228
95	Self-Assembled Three-Dimensional Graphene-Based Polyhedrons Inducing Volumetric Light Confinement. Nano Letters, 2017, 17, 1987-1994.	4.5	45
96	Broadband Achromatic Anomalous Mirror in Near-IR and Visible Frequency Ranges. ACS Photonics, 2017, 4, 1646-1652.	3.2	4
97	High-Performance Black Phosphorus MOSFETs Using Crystal Orientation Control and Contact Engineering. IEEE Electron Device Letters, 2017, 38, 685-688.	2.2	20
98	Directive Surface Plasmons on Tunable Two-Dimensional Hyperbolic Metasurfaces and Black Phosphorus: Green's Function and Complex Plane Analysis. IEEE Transactions on Antennas and Propagation, 2017, 65, 1174-1186.	3.1	39
99	Layer-Tunable Third-Harmonic Generation in Multilayer Black Phosphorus. ACS Photonics, 2017, 4, 8-14.	3.2	125
100	Midinfrared Electro-optic Modulation in Few-Layer Black Phosphorus. Nano Letters, 2017, 17, 6315-6320.	4.5	96
101	Multilayered black phosphorus: From a tight-binding to a continuum description. Physical Review B, 2017, 96, .	1.1	39
102	Graphene and black phosphorus for infrared optoelectronics. , 2017, , .		0
103	Theoretical Overview of Black Phosphorus. , 2017, , 381-412.		9
104	Graphene Plasmonics. , 2017, , 104-140.		1
105	Graphene-edge dielectrophoretic tweezers for trapping of biomolecules. Nature Communications, 2017, 8, 1867.	5.8	69
106	Semianalytical model of the contact resistance in two-dimensional semiconductors. Physical Review B, 2017, 96, .	1.1	5
107	Tunable plasmon-enhanced birefringence in ribbon array of anisotropic two-dimensional materials. Physical Review B, 2017, 95, .	1.1	29
108	Polaritons in layered two-dimensional materials. Nature Materials, 2017, 16, 182-194.	13.3	963

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109	Symmetry-forbidden intervalley scattering by atomic defects in monolayer transition-metal dichalcogenides. <i>Physical Review B</i> , 2017, 96, .	1.1	27
110	Tunable polarization rotation using black phosphorous monolayers. , 2016, , .		0
111	Spatial/temporal photocurrent and electronic transport in monolayer molybdenum disulfide grown by chemical vapor deposition. <i>Applied Physics Letters</i> , 2016, 108, .	1.5	12
112	Pumping electrons in graphene to the Mpoint in the Brillouin zone: Emergence of anisotropic plasmons. <i>Physical Review B</i> , 2016, 94, .	1.1	5
113	Chiral plasmon in gapped Dirac systems. <i>Physical Review B</i> , 2016, 93, .	1.1	71
114	Plasmon coupling in extended structures: Graphene superlattice nanoribbon arrays. <i>Physical Review B</i> , 2016, 93, .	1.1	10
115	Mobility anisotropy in monolayer black phosphorus due to scattering by charged impurities. <i>Physical Review B</i> , 2016, 93, .	1.1	85
116	Band alignment of two-dimensional semiconductors for designing heterostructures with momentum space matching. <i>Physical Review B</i> , 2016, 94, .	1.1	347
117	Anisotropic 2D Materials for Tunable Hyperbolic Plasmonics. <i>Physical Review Letters</i> , 2016, 116, 066804.	2.9	212
118	Multilayer Black Phosphorus as a Versatile Mid-Infrared Electro-optic Material. <i>Nano Letters</i> , 2016, 16, 1683-1689.	4.5	151
119	Photonic and plasmonic guided modes in graphene-silicon photonic crystals. , 2016, , .		0
120	Thickness dependent third-harmonic generation in few-layer black phosphorus. , 2016, , .		0
121	Anisotropic exciton Stark shift in black phosphorus. <i>Physical Review B</i> , 2015, 91, .	1.1	92
122	Magnetoelectronic properties of multilayer black phosphorus. <i>Physical Review B</i> , 2015, 92, .	1.1	45
123	Topological currents in black phosphorus with broken inversion symmetry. <i>Physical Review B</i> , 2015, 92, .	1.1	69
124	Gate-controlled mid-infrared light bending with aperiodic graphene nanoribbons array. <i>Nanotechnology</i> , 2015, 26, 134002.	1.3	54
125	Plasmonâ€™Plasmon Hybridization and Bandwidth Enhancement in Nanostructured Graphene. <i>Nano Letters</i> , 2015, 15, 2582-2587.	4.5	43
126	Multi-terminal transport measurements of MoS2 using a van der Waals heterostructure device platform. <i>Nature Nanotechnology</i> , 2015, 10, 534-540.	15.6	1,099

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127	Nonlocal electromagnetic response of graphene nanostructures. Physical Review B, 2015, 91, .	1.1	18
128	Tunable Light-Matter Interaction and the Role of Hyperbolicity in Graphene-hBN System. Nano Letters, 2015, 15, 3172-3180.	4.5	260
129	Atomic and electronic structure of exfoliated black phosphorus. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2015, 33, .	0.9	73
130	Photonic and Plasmonic Guided Modes in Graphene-Silicon Photonic Crystals. ACS Photonics, 2015, 2, 1552-1558.	3.2	23
131	Valley Splitting and Polarization by the Zeeman Effect in Monolayer MoSe_2 . Physical Review Letters, 2014, 113, 266804.	2.9	395
132	Graphene Plasmonics for Terahertz to Mid-Infrared Applications. ACS Nano, 2014, 8, 1086-1101.	7.3	1,165
133	Electronic transport and device prospects of monolayer molybdenum disulphide grown by chemical vapour deposition. Nature Communications, 2014, 5, 3087.	5.8	370
134	Origin of photoresponse in black phosphorus phototransistors. Physical Review B, 2014, 90, .	1.1	178
135	Tunable optical properties of multilayer black phosphorus thin films. Physical Review B, 2014, 90, .	1.1	592
136	Substrate-Sensitive Mid-infrared Photoresponse in Graphene. ACS Nano, 2014, 8, 8350-8356.	7.3	30
137	Novel Midinfrared Plasmonic Properties of Bilayer Graphene. Physical Review Letters, 2014, 112, 116801.	2.9	56
138	Plasmons and Screening in Monolayer and Multilayer Black Phosphorus. Physical Review Letters, 2014, 113, 106802.	2.9	515
139	Tunable Phonon-Induced Transparency in Bilayer Graphene Nanoribbons. Nano Letters, 2014, 14, 4581-4586.	4.5	129
140	Effect of dual gate control on the alternating current performance of graphene radio frequency device. Journal of Applied Physics, 2013, 114, 044307.	1.1	5
141	Graphene electronics and photonics (Invited). , 2013, , .		0
142	Photoconductivity of biased graphene. Nature Photonics, 2013, 7, 53-59.	15.6	467
143	Increased Responsivity of Suspended Graphene Photodetectors. Nano Letters, 2013, 13, 1644-1648.	4.5	171
144	Damping pathways of mid-infrared plasmons in graphene nanostructures. Nature Photonics, 2013, 7, 394-399.	15.6	815

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145	Generation of Pure Bulk Valley Current in Graphene. Physical Review Letters, 2013, 110, 046601.	2.9	221
146	Photocurrent in graphene harnessed by tunable intrinsic plasmons. Nature Communications, 2013, 4, 1951.	5.8	280
147	Graphene-Side-Gate Engineering. IEEE Electron Device Letters, 2012, 33, 330-332.	2.2	14
148	Electron Pumping in Graphene Mechanical Resonators. Nano Letters, 2012, 12, 850-854.	4.5	77
149	Cooling of photoexcited carriers in graphene by internal and substrate phonons. Physical Review B, 2012, 86, .	1.1	100
150	Quantum Behavior of Graphene Transistors near the Scaling Limit. Nano Letters, 2012, 12, 1417-1423.	4.5	77
151	Structure and Electronic Transport in Graphene Wrinkles. Nano Letters, 2012, 12, 3431-3436.	4.5	540
152	Scaling of the Energy Gap in Pattern-Hydrogenated Graphene. Nano Letters, 2011, 11, 4574-4578.	4.5	40
153	Signatures of Disorder in the Minimum Conductivity of Graphene. Nano Letters, 2011, 11, 1319-1322.	4.5	27
154	Gate-controlled guiding of electrons in graphene. Nature Nanotechnology, 2011, 6, 222-225.	15.6	203
155	Substrate Gating of Contact Resistance in Graphene Transistors. IEEE Transactions on Electron Devices, 2011, 58, 3925-3932.	1.6	47
156	All-graphene electronics by exploiting physical analogies. , 2010, , .		0
157	Strain-Induced Pseudomagnetic Field for Novel Graphene Electronics. Nano Letters, 2010, 10, 3551-3554.	4.5	252
158	Simulation of spin field effect transistors: Effects of tunneling and spin relaxation on performance. Journal of Applied Physics, 2010, 108, 083702.	1.1	9
159	Electronic transport properties of a tilted graphene $\frac{p}{n} \hat{a}^2$ Physical Review B, 2009, 80, .	1.1	43
160	Conductance Asymmetry of Graphene p-n Junction. IEEE Transactions on Electron Devices, 2009, 56, 1292-1299.	1.6	114
161	Ballistic-Ohmic quantum Hall plateau transition in a graphene $\frac{p}{n} \hat{a}^2$ Physical Review B, 2009, 80, .	1.1	26
162	A Tight-Binding Study of the Ballistic Injection Velocity for Ultrathin-Body SOI MOSFETs. IEEE Transactions on Electron Devices, 2008, 55, 866-871.	1.6	47

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163	NEGF analysis of InGaAs Schottky barrier double gate MOSFETs. , 2008, , .		14
164	Signatures of quantum transport through two-dimensional structures with correlated and anticorrelated interfaces. Physical Review B, 2008, 78, .	1.1	6
165	Modeling of spin metal-oxide-semiconductor field-effect transistor: A nonequilibrium Greenâ€™s function approach with spin relaxation. Journal of Applied Physics, 2008, 104, 094511.	1.1	8
166	Performance Analysis of III-V Materials in a Double-Gate nano-MOSFET. , 2007, , .		22
167	Electron mobility in Ge and strained-Si channel ultrathin-body metal-oxide semi conductor field-effect transistors. Applied Physics Letters, 2004, 85, 2402-2404.	1.5	31
168	Electron Optics with Graphene p-n Junctions. , 0, , 141-158.		0
169	Graphene-BN Heterostructures. , 0, , 219-237.		0