Wee Shing Koh

List of Publications by Year
in descending order

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40 papers	2,069 citations	516215 16 h-index	454577 30 g-index
40 all docs	40 docs citations	40 times ranked	2476 citing authors

#	Article	IF	Citations
1	Highly sensitive graphene biosensors based on surface plasmon resonance. Optics Express, 2010, 18, 14395.	1.7	799
2	Enhancement of optical absorption in thin-film solar cells through the excitation of higher-order nanoparticle plasmon modes. Optics Express, 2009, 17, 10195.	1.7	244
3	Resonant and nonresonant plasmonic nanoparticle enhancement for thin-film silicon solar cells. Nanotechnology, 2010, 21, 235201.	1.3	176
4	Nanoparticle-enhanced thin film solar cells: Metallic or dielectric nanoparticles?. Applied Physics Letters, 2010, 96, 073111.	1.5	148
5	Design of Plasmonic Nanoparticles for Efficient Subwavelength Light Trapping in Thin-Film Solar Cells. Plasmonics, 2011, 6, 155-161.	1.8	148
6	Space-charge-limited flows in the quantum regime. Physics of Plasmas, 2006, 13, 056701.	0.7	115
7	Three-dimensional Childâ€“Langmuir law for uniform hot electron emission. Physics of Plasmas, 2005, 12, 053107.	0.7	65
8	High-field half-cycle terahertz radiation from relativistic laser interaction with thin solid targets. Applied Physics Letters, 2013, 103, .	1.5	33
9	Remarkable influence of the number of nanowires on plasmonic behaviors of the coupled metallic nanowire chain. Applied Physics Letters, 2008, 92, 103103.	1.5	32
10	Quantum model of spaceâ€“charge-limited field emission in a nanogap. Nanotechnology, 2008, 19, 235402.	1.3	29
11	Transition of field emission to space-charge-limited emission in a nanogap. Applied Physics Letters, 2006, 89, 183107.	1.5	28
12	The Potential of Graphene as an ITO Replacement in Organic Solar Cells: An Optical Perspective. IEEE Journal of Selected Topics in Quantum Electronics, 2014, 20, 36-42.	1.9	28
13	Three-Dimensional Optoelectronic Model for Organic Bulk Heterojunction Solar Cells. IEEE Journal of Photovoltaics, 2011, 1, 84-92.	1.5	25
14	Carbon nanotube Schottky diode: an atomic perspective. Nanotechnology, 2008, 19, 115203.	1.3	23
15	Two-dimensional model of space charge limited electron injection into a diode with Schottky contact. Journal Physics D: Applied Physics, 2009, 42, 055504.	1.3	18
16	Simplified model for ballistic currentâ€“voltage characteristic in cylindrical nanowires. Microelectronics Journal, 2010, 41, 155-161.	1.1	17
17	Evaluating the impact of tree morphologies and planting densities on outdoor thermal comfort in tropical residential precincts in Singapore. Building and Environment, 2022, 221, 109268.	3.0	16
18	Simulation and validation of solar heat gain in real urban environments. Building and Environment, 2017, 123, 261-276.	3.0	15

#	Article	IF	Citations
19	Multidimensional short-pulse space-charge-limited flow. Physics of Plasmas, 2006, 13, 063102.	0.7	14
20	Tolerance study of nanoparticle enhancement for thin-film silicon solar cells. Applied Physics Letters, 2011, 99, 063102.	1.5	14
21	Two-dimensional electromagnetic Childâ€“Langmuir law of a short-pulse electron flow. Physics of Plasmas, 2011, 18, .	0.7	13
22	Space-charge-limited bipolar flow in a nano-gap. Applied Physics Letters, 2005, 87, 193112.	1.5	12
23	Efficiencies of Aloof-Scattered Electron Beam Excitation of Metal and Graphene Plasmons. IEEE Transactions on Plasma Science, 2015, 43, 951-956.	0.6	12
24	Two-dimensional space-charge-limited flows in a crossed-field gap. Applied Physics Letters, 2007, 90, 141503.	1.5	11
25	Theory of shot noise in high-current space-charge-limited field emission. Physical Review B, 2008, 77, .	1.1	9
26	Two-dimensional relativistic space charge limited current flow in the drift space. Physics of Plasmas, 2014, 21, 043101.	0.7	7
27	Optimal Shell Thickness of Metal@Insulator Nanoparticles for Net Enhancement of Photogenerated Polarons in P3HT Films. ACS Applied Materials & Interfaces, 2016, 8, 2464-2469.	4.0	6
28	Short-pulse space-charge-limited electron flows in a drift space. Physics of Plasmas, 2008, 15, 063105.	0.7	5
29	SIMULATION OF HIGH CURRENT FIELD EMISSION FROM VERTICALLY WELL-ALIGNED METALLIC CARBON NANOTUBES. International Journal of Nanoscience, 2004, 03, 677-684.	0.4	2
30	Optimization of light-trapping in thin-film solar cells enhanced with plasmonic nanoparticles. , 2010, , .		2
31	Quantifying the Usefulness of Oxide-Encapsulated Silver Nanoparticles in Semiconducting Films. Plasmonics, 2017, 12, 1673-1683.	1.8	2
32	Plasmon-enhanced light absorption in thin-film amorphous silicon solar cells. , 2009, , .		1
33	Two-Dimensional Short-Pulse Child-Langmuir Law. IEEE International Conference on Plasma Science, 2005, , .	0.0	0
34	Bipolar Quantum Child-Langmuir Law. IEEE International Conference on Plasma Science, 2005, , .	0.0	0
35	Transition from Fowler-Nordheim to Child-Langmuir Law in the quantum regime. , 2006, , .		0
36	Two-dimensional limiting current in crossed-field gap. , 2006, , .		0

#	Article	IF	Citations
37	Influence of Image Charge Potential on High Current Field Emitted Electron Flows in a Nano-Diode. , 2007, , .		0
38	3D full-wave optical and electronic modeling of organic bulk-heterojunction solar cells: a predictive approach. Proceedings of SPIE, 2013, , .	0.8	0
39	Numerical thermalization time scaling of 2D electromagnetic collisional plasmas. , 2016, , .		0
40	The Potential of Graphene as a Transparent Electrode. , 2017, , 457-482.		0