Wee Shing Koh

List of Publications by Year
in descending order

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	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
2	The Potential of Graphene as a Transparent Electrode. , 2017, , 457-482.		0
3	Simulation and validation of solar heat gain in real urban environments. Building and Environment, 2017, 123, 261-276.	3.0	15
4	Quantifying the Usefulness of Oxide-Encapsulated Silver Nanoparticles in Semiconducting Films. Plasmonics, 2017, 12, 1673-1683.	1.8	2
5	Numerical thermalization time scaling of 2D electromagnetic collisional plasmas. , 2016, , .		0
6	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
7	Efficiencies of Aloof-Scattered Electron Beam Excitation of Metal and Graphene Plasmons. IEEE Transactions on Plasma Science, 2015, 43, 951-956.	0.6	12
8	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
9	Two-dimensional relativistic space charge limited current flow in the drift space. Physics of Plasmas, 2014, 21, 043101.	0.7	7
10	3D full-wave optical and electronic modeling of organic bulk-heterojunction solar cells: a predictive approach. Proceedings of SPIE, 2013, , .	0.8	0
11	High-field half-cycle terahertz radiation from relativistic laser interaction with thin solid targets. Applied Physics Letters, 2013, 103, .	1.5	33
12	Three-Dimensional Optoelectronic Model for Organic Bulk Heterojunction Solar Cells. IEEE Journal of Photovoltaics, 2011, 1, 84-92.	1.5	25
13	Tolerance study of nanoparticle enhancement for thin-film silicon solar cells. Applied Physics Letters, 2011, 99, 063102.	1.5	14
14	Design of Plasmonic Nanoparticles for Efficient Subwavelength Light Trapping in Thin-Film Solar Cells. Plasmonics, 2011, 6, 155-161.	1.8	148
15	Two-dimensional electromagnetic Childâ€"Langmuir law of a short-pulse electron flow. Physics of Plasmas, 2011, 18, .	0.7	13
16	Simplified model for ballistic currentâ€"voltage characteristic in cylindrical nanowires. Microelectronics Journal, 2010, 41, 155-161.	1.1	17
17	Nanoparticle-enhanced thin film solar cells: Metallic or dielectric nanoparticles?. Applied Physics Letters, 2010, 96, 073111.	1.5	148
18	Resonant and nonresonant plasmonic nanoparticle enhancement for thin-film silicon solar cells. Nanotechnology, 2010, 21, 235201.	1.3	176

#	Article	IF	Citations
19	Optimization of light-trapping in thin-film solar cells enhanced with plasmonic nanoparticles. , 2010, , .		2
20	Highly sensitive graphene biosensors based on surface plasmon resonance. Optics Express, 2010, 18, 14395.	1.7	799
21	Plasmon-enhanced light absorption in thin-film amorphous silicon solar cells. , 2009, , .		1
22	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
23	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
24	Quantum model of spaceâ€“charge-limited field emission in a nanogap. Nanotechnology, 2008, 19, 235402.	1.3	29
25	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
26	Carbon nanotube Schottky diode: an atomic perspective. Nanotechnology, 2008, 19, 115203.	1.3	23
27	Theory of shot noise in high-current space-charge-limited field emission. Physical Review B, 2008, 77, .	1.1	9
28	Short-pulse space-charge-limited electron flows in a drift space. Physics of Plasmas, 2008, 15, 063105.	0.7	5
29	Influence of Image Charge Potential on High Current Field Emitted Electron Flows in a Nano-Diode. , 2007, , .		0
30	Two-dimensional space-charge-limited flows in a crossed-field gap. Applied Physics Letters, 2007, 90, 141503.	1.5	11
31	Transition of field emission to space-charge-limited emission in a nanogap. Applied Physics Letters, 2006, 89, 183107.	1.5	28
32	Space-charge-limited flows in the quantum regime. Physics of Plasmas, 2006, 13, 056701.	0.7	115
33	Transition from Fowler-Nordheim to Child-Langmuir Law in the quantum regime. , 2006, , .		0
34	Multidimensional short-pulse space-charge-limited flow. Physics of Plasmas, 2006, 13, 063102.	0.7	14
35	Two-dimensional limiting current in crossed-field gap. , 2006, , .		0
36	Three-dimensional Childâ€“Langmuir law for uniform hot electron emission. Physics of Plasmas, 2005, 12, 053107.	0.7	65

#	Article	IF	Citations
37	Space-charge-limited bipolar flow in a nano-gap. Applied Physics Letters, 2005, 87, 193112.	1.5	12
38	Two-Dimensional Short-Pulse Child-Langmuir Law. IEEE International Conference on Plasma Science, 2005, , .	0.0	0
39	Bipolar Quantum Child-Langmuir Law. IEEE International Conference on Plasma Science, 2005, , .	0.0	0
40	SIMULATION OF HIGH CURRENT FIELD EMISSION FROM VERTICALLY WELL-ALIGNED METALLIC CARBON NANOTUBES. International Journal of Nanoscience, 2004, 03, 677-684.	0.4	2