

Kai-Ming Ho

List of Publications by Year in descending order

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41
papers

3,587
citations

185998

28
h-index

301761

39
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44
all docs

44
docs citations

44
times ranked

3327
citing authors

#	ARTICLE	IF	CITATIONS
1	Structures of medium-sized silicon clusters. <i>Nature</i> , 1998, 392, 582-585.	13.7	622
2	Self-consistent mixed-basis approach to the electronic structure of solids. <i>Physical Review B</i> , 1979, 19, 1774-1782.	1.1	450
3	Structures and dynamical properties of C_n , Si_n , Ge_n , and Sn_n clusters with n up to 13. <i>Physical Review B</i> , 2000, 61, 2329-2334.	1.1	183
4	Ionization of medium-sized silicon clusters and the geometries of the cations. <i>Journal of Chemical Physics</i> , 1998, 109, 9401-9409.	1.2	169
5	Metals on Graphene: Interactions, Growth Morphology, and Thermal Stability. <i>Crystals</i> , 2013, 3, 79-111.	1.0	135
6	Modeling ionic mobilities by scattering on electronic density isosurfaces: Application to silicon cluster anions. <i>Journal of Chemical Physics</i> , 2000, 112, 4517-4526.	1.2	131
7	Structures of Germanium Clusters: Where the Growth Patterns of Silicon and Germanium Clusters Diverge. <i>Physical Review Letters</i> , 1999, 83, 2167-2170.	2.9	123
8	Growth morphology and properties of metals on graphene. <i>Progress in Surface Science</i> , 2015, 90, 397-443.	3.8	123
9	Observation of Surface States on Ag(100) by Infrared and Visible Electroreflectance Spectroscopy. <i>Physical Review Letters</i> , 1981, 47, 1921-1924.	2.9	121
10	Dielectric matrix scheme for fast convergence in self-consistent electronic-structure calculations. <i>Physical Review B</i> , 1982, 25, 4260-4262.	1.1	121
11	A New Architecture for Transparent Electrodes: Relieving the Trade-Off Between Electrical Conductivity and Optical Transmittance. <i>Advanced Materials</i> , 2011, 23, 2469-2473.	11.1	118
12	On Realizing Higher Efficiency Polymer Solar Cells Using a Textured Substrate Platform. <i>Advanced Materials</i> , 2011, 23, 112-116.	11.1	106
13	Extremely Efficient Indium-Tin-Oxide-Free Green Phosphorescent Organic Light-Emitting Diodes. <i>Advanced Materials</i> , 2012, 24, 4337-4342.	11.1	105
14	Surface-State Contribution to the Electroreflectance of Noble Metals. <i>Physical Review Letters</i> , 1980, 44, 1531-1534.	2.9	102
15	Spectroscopic Evidence for the Tricapped Trigonal Prism Structure of Semiconductor Clusters. <i>Physical Review Letters</i> , 2000, 85, 1666-1669.	2.9	91
16	Infrared filters using metallic photonic band gap structures on flexible substrates. <i>Applied Physics Letters</i> , 1997, 71, 2412-2414.	1.5	77
17	Calculated polarizabilities of intermediate-size Si clusters. <i>Physical Review A</i> , 1999, 59, 3685-3689.	1.0	73
18	Ultrafast terahertz snapshots of excitonic Rydberg states and electronic coherence in an organometal halide perovskite. <i>Nature Communications</i> , 2017, 8, 15565.	5.8	72

#	ARTICLE	IF	CITATIONS
19	Dissociation Energies of Silicon Clusters: A Depth Gauge for the Global Minimum on the Potential Energy Surface. <i>Physical Review Letters</i> , 1998, 81, 4616-4619.	2.9	71
20	Metal Nanostructure Formation on Graphene: Weak versus Strong Bonding. <i>Advanced Materials</i> , 2011, 23, 2082-2087.	11.1	69
21	Magic Structures of H-Passivated Si_{110} Silicon Nanowires. <i>Nano Letters</i> , 2006, 6, 277-281.	4.5	65
22	Evaluation of Ionic Mobilities by Coupling the Scattering on Atoms and on Electron Density. <i>Journal of Physical Chemistry A</i> , 2000, 104, 6152-6157.	1.1	49
23	Micro lens array induced light absorption enhancement in polymer solar cells. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 4297.	1.3	49
24	Soft holographic interference lithography microlens for enhanced organic light emitting diode light extraction. <i>Optics Express</i> , 2011, 19, A786.	1.7	39
25	Growth morphology and thermal stability of metal islands on graphene. <i>Physical Review B</i> , 2012, 86, .	1.1	38
26	Undissociated screw dislocation in Si: Glide or shuffle set?. <i>Applied Physics Letters</i> , 2006, 89, 051910.	1.5	33
27	Microporous phase-separated films of polymer blends for enhanced outcoupling of light from OLEDs. <i>Optics Express</i> , 2011, 19, A1272.	1.7	28
28	Structures and magnetic properties of Fe clusters on graphene. <i>Physical Review B</i> , 2014, 90, .	1.1	28
29	The Structure of Ultrathin H-Passivated [112] Silicon Nanowires. <i>Journal of Physical Chemistry C</i> , 2007, 111, 7933-7937.	1.5	27
30	Size- and Strain-Dependent Electronic Structures in H-Passivated Si [112] Nanowires. <i>Journal of Physical Chemistry C</i> , 2008, 112, 15680-15683.	1.5	25
31	Fabrication of metallic nanowires and nanoribbons using laser interference lithography and shadow lithography. <i>Nanotechnology</i> , 2010, 21, 215301.	1.3	25
32	Reducing optical losses in organic solar cells using microlens arrays: theoretical and experimental investigation of microlens dimensions. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 3723-3730.	1.3	25
33	Broadband light absorption enhancement in polymer photovoltaics using metal nanowall gratings as transparent electrodes. <i>Optics Express</i> , 2012, 20, 12213.	1.7	22
34	Global structural optimization of Si magic clusters on the Si(111) $7\sqrt{3}\times 7$ surface. <i>Surface Science</i> , 2005, 598, L339-L346.	0.8	19
35	Synergistic computational and experimental discovery of novel magnetic materials. <i>Molecular Systems Design and Engineering</i> , 2020, 5, 1098-1117.	1.7	13
36	Magnetic Moment Enhancement for Mn Cluster on Graphene. <i>Journal of Physical Chemistry C</i> , 2014, 118, 19123-19128.	1.5	12

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37	Metal-nanowall grating transparent electrodes: Achieving high optical transmittance at high incident angles with minimal diffraction. <i>Optics Express</i> , 2013, 21, 2393.	1.7	10
38	Global Optimization of 2-Dimensional Nanoscale Structures: A Brief Review. <i>Materials and Manufacturing Processes</i> , 2009, 24, 109-118.	2.7	9
39	Charge oscillations and interaction between potassium adatoms on graphene studied by first-principles calculations. <i>Physical Review B</i> , 2015, 91, .	1.1	9
40	Band-reject infrared metallic photonic band gap filters on flexible polyimide substrate. <i>Materials Research Society Symposia Proceedings</i> , 1997, 484, 183.	0.1	0
41	The Genetic Algorithm in Real-Space Representation. , 2013, , 11-35.		0