Cheng Tai Kuo

List of Publications by Year
in descending order

32	814	623734	477307
papers	citations	14 h-index	29 g-index

32	32	32	1547
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Exfoliation and Raman Spectroscopic Fingerprint of Few-Layer NiPS3 Van der Waals Crystals. Scientific Reports, 2016, 6, 20904.	3.3	222
2	Plasmonic Green Nanolaser Based on a Metalâ€“Oxideâ€“Semiconductor Structure. Nano Letters, 2011, 11, 4256-4260.	9.1	106
3	Absence of Fermi-Level Pinning at Cleaved Nonpolar InN Surfaces. Physical Review Letters, 2008, 101, 106803.	7.8	87
4	Is electron accumulation universal at InN polar surfaces?. Applied Physics Letters, 2011, 98, .	3.3	46
5	Cross-sectional scanning photoelectron microscopy and spectroscopy of wurtzite InNâˆ•GaN heterojunction: Measurement of â€œintrinsicâ€•band lineup. Applied Physics Letters, 2008, 92, .	3.3	39
6	Polarization-induced valence-band alignments at cation- and anion-polar InNâˆ•GaN heterojunctions. Applied Physics Letters, 2007, 91, .	3.3	35
7	Experimental Determination of Electron Affinities for InN and GaN Polar Surfaces. Applied Physics Express, 2012, 5, 031003.	2.4	35
8	Valence band offset and interface stoichiometry at epitaxial Si3N4/Si(111) heterojunctions formed by plasma nitridation. Applied Physics Letters, 2009, 95, .	3.3	22
9	Interface properties and built-in potential profile of a <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mrow><mml:mspace width="4pt" /><mml:mi>LaCr</mml:mi></mml:mrow><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mn>3</mml:mn></mml:msub><mml:mo>/</mml:mo><mml:mi>SrTi</mml:mi><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:mrow></mml:math> superlattice determined by standing-wave excited photoemission spectroscopy. Physical Review B, 2018,	3.2	22
10	Element- and momentum-resolved electronic structure of the dilute magnetic semiconductor manganese doped gallium arsenide. Nature Communications, 2018, 9, 3306.	12.8	22
11	Immobilization of DNA-Au nanoparticles on aminosilane-functionalized aluminum nitride epitaxial films for surface acoustic wave sensing. Applied Physics Letters, 2008, 93, .	3.3	19
12	Effects of (NH4)2Sx treatment on indium nitride surfaces. Journal of Applied Physics, 2010, 107, 043710.	2.5	18
13	X-ray Absorption Spectroscopy Study of the Effect of Rh doping in Sr2IrO4. Scientific Reports, 2016, 6, 23856.	3.3	15
14	Natural band alignments of InN/GaN/AlN nanorod heterojunctions. Applied Physics Letters, 2011, 99, 122101.	3.3	14
15	The energy band alignment at the interface between mechanically exfoliated few-layer NiPS3 nanosheets and ZnO. Current Applied Physics, 2016, 16, 404-408.	2.4	14
16	Characterization of free-standing InAs quantum membranes by standing wave hard x-ray photoemission spectroscopy. APL Materials, 2018, 6, .	5.1	11
17	Insulating-layer formation of metallic LaNiO3 on Nb-doped SrTiO3 substrate. Applied Physics Letters, 2015, 106, 121601.	3.3	10
18	Superconductor to Mott insulator transition in YBa2Cu3O7/LaCaMnO3 heterostructures. Scientific Reports, 2016, 6, 33184.	3.3	10

#	Article	IF	Citations
19	Direct imaging of GaN p-n junction by cross-sectional scanning photoelectron microscopy and spectroscopy. Applied Physics Letters, 2009, 94, .	3.3	9
20	Hard x-ray standing-wave photoemission insights into the structure of an epitaxial Fe/MgO multilayer magnetic tunnel junction. Journal of Applied Physics, 2019, 126, 075305.	2.5	9
21	Two-dimensional electron systems in perovskite oxide heterostructures: Role of the polarity-induced substitutional defects. Physical Review Materials, 2020, 4, .	2.4	7
22	Spontaneous-polarization-induced heterojunction asymmetry in III-nitride semiconductors. Applied Physics Letters, 2011, 99, 022113.	3.3	6
23	Depth-resolved resonant inelastic x-ray scattering at a superconductor/half-metallic-ferromagnet interface through standing wave excitation. Physical Review B, 2018, 98, .	3.2	6
24	Orientation-Controlled Anisotropy in Single Crystals of Quasi-1D BaTiS₃. Chemistry of Materials, 2022, 34, 5680-5689.	6.7	6
25	Atomic-layer-resolved composition and electronic structure of the cuprate <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi mathvariant="normal">B</mml:mi><mml:msub><mml:mi mathvariant="normal">i</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:mi mathvariant="normal">S</mml:mi><mml:msub><mml:mi	3.2	5
26	Interface Carriers and Enhanced Electronâ€Phonon Coupling Effect in Al₂O₃/TiO₂ Heterostructure Revealed by Resonant Inelastic Soft Xâ€Ray Scattering. Advanced Functional Materials, 2021, 31, 2104430.	14.9	5
27	High resolution depth profiling using near-total-reflection hard x-ray photoelectron spectroscopy. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2021, 39, .	2.1	5
28	Nitride Semiconductor Nanorod Heterostructures for Full-Color and White-Light Applications. Semiconductors and Semimetals, 2017, 96, 341-384.	0.7	3
29	Orbital contributions in the element-resolved valence electronic structure of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Bi</mml:mi><mml:mn>2</mml:mn></mml:msub> Physical Review B, 2021, 104, .	3.2	3
30	Emergent phenomena at oxide interfaces studied with standing-wave photoelectron spectroscopy. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2022, 40, 020801.	2.1	2
31	Probing the polar-nonpolar oxide interfaces using resonant x-ray standing wave techniques. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2022, 40, 010804.	2.1	1
32	Electronic Properties of III-Nitride Surfaces and Interfaces Studied by Scanning Photoelectron Microscopy and Spectroscopy. Materials Research Society Symposia Proceedings, 2009, 1202, 38.	0.1	0