

Andrew T S Wee

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

123
papers

4,738
citations

37
h-index

65
g-index

140
ext. papers

5,624
ext. citations

11.3
avg, IF

5.65
L-index

#	Paper	IF	Citations
123	Hybrid Organic-2D TMD Heterointerfaces: Towards Devices Using 2D Materials 2022 , 171-198		
122	Coexistence of Photoelectric Conversion and Storage in van der Waals Heterojunctions. <i>Physical Review Letters</i> , 2021 , 127, 217401	7.4	1
121	1D chain structure in 1T'-phase 2D transition metal dichalcogenides and their anisotropic electronic structures. <i>Applied Physics Reviews</i> , 2021 , 8, 011313	17.3	2
120	Spontaneous phase segregation of SrNiO and SrNiO during SrNiO heteroepitaxy. <i>Science Advances</i> , 2021 , 7,	14.3	4
119	Two-dimensional magnetic transition metal chalcogenides. <i>SmartMat</i> , 2021 , 2, 139-153	22.8	20
118	Upconversion Photovoltaic Effect of WS ₂ /2D Perovskite Heterostructures by Two-Photon Absorption. <i>ACS Nano</i> , 2021 , 15, 10437-10443	16.7	6
117	Photoluminescence upconversion of 2D materials and applications. <i>Journal of Physics Condensed Matter</i> , 2021 , 33,	1.8	3
116	Recent developments in 2D transition metal dichalcogenides: phase transition and applications of the (quasi-)metallic phases. <i>Chemical Society Reviews</i> , 2021 , 50, 10087-10115	58.5	25
115	Many-particle induced band renormalization processes in few- and mono-layer MoS ₂ . <i>Nanotechnology</i> , 2021 , 32, 135208	3.4	6
114	Promoting a Weak Coupling of Monolayer MoSe Grown on (100)-Faceted Au Foil. <i>ACS Nano</i> , 2021 , 15, 4481-4489	16.7	4
113	Diverse Structures and Magnetic Properties in Nonlayered Monolayer Chromium Selenide. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 7752-7760	6.4	4
112	On-Surface Synthesis of Variable Bandgap Nanoporous Graphene. <i>Small</i> , 2021 , 17, e2102246	11	2
111	Defect Engineering of Two-Dimensional Transition-Metal Dichalcogenides: Applications, Challenges, and Opportunities. <i>ACS Nano</i> , 2021 , 15, 2165-2181	16.7	53
110	Can Reconstructed Se-Deficient Line Defects in Monolayer VSe Induce Magnetism?. <i>Advanced Materials</i> , 2020 , 32, e2000693	24	36
109	Exchange Bias in van der Waals CrCl ₂ /FeGeTe Heterostructures. <i>Nano Letters</i> , 2020 , 20, 5030-5035	11.5	26
108	Type-II Interface Band Alignment in the vdW Pbl-MoSe Heterostructure. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 32099-32105	9.5	8
107	Thermally Induced Chiral Aggregation of Dihydrobenzopyrenone on Au(111). <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 35547-35554	9.5	2

106	Energy-Efficient Stacks of Covellite (CuS) on Polyethylene Terephthalate Film: A Sustainable Solution to Heat Management. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 3314-3321	3.8	5
105	Performance Improvement by Ozone Treatment of 2D PdSe. <i>ACS Nano</i> , 2020 , 14, 5668-5677	16.7	33
104	Anisotropic Collective Charge Excitations in Quasimetallic 2D Transition-Metal Dichalcogenides. <i>Advanced Science</i> , 2020 , 7, 1902726	13.6	3
103	Realization of a Buckled Antimonene Monolayer on Ag(111) via Surface Engineering. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 8976-8982	6.4	8
102	Mg Diffusion-Induced Structural and Property Evolution in Epitaxial FeO Thin Films. <i>ACS Nano</i> , 2020 , 14, 14887-14894	16.7	3
101	Interfacial Oxygen-Driven Charge Localization and Plasmon Excitation in Unconventional Superconductors. <i>Advanced Materials</i> , 2020 , 32, e2000153	24	6
100	Molecular Beam Epitaxy of Two-Dimensional Vanadium-Molybdenum Diselenide Alloys. <i>ACS Nano</i> , 2020 , 14, 11140-11149	16.7	10
99	Optoelectronic Properties of a van der Waals WS Monolayer/2D Perovskite Vertical Heterostructure. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 45235-45242	9.5	22
98	Atomic-Level Electronic Properties of Carbon Nitride Monolayers. <i>ACS Nano</i> , 2020 , 14, 14008-14016	16.7	7
97	Unraveling High-Yield Phase-Transition Dynamics in Transition Metal Dichalcogenides on Metallic Substrates. <i>Advanced Science</i> , 2019 , 6, 1802093	13.6	14
96	High-Energy Gain Upconversion in Monolayer Tungsten Disulfide Photodetectors. <i>Nano Letters</i> , 2019 , 19, 5595-5603	11.5	24
95	Modulation of New Excitons in Transition Metal Dichalcogenide-Perovskite Oxide System. <i>Advanced Science</i> , 2019 , 6, 1900446	13.6	3
94	Point Defects and Localized Excitons in 2D WSe. <i>ACS Nano</i> , 2019 , 13, 6050-6059	16.7	76
93	Tuning the Electronic Structure of LaNiO through Alloying with Strontium to Enhance Oxygen Evolution Activity. <i>Advanced Science</i> , 2019 , 6, 1901073	13.6	41
92	Synergistic additive-mediated CVD growth and chemical modification of 2D materials. <i>Chemical Society Reviews</i> , 2019 , 48, 4639-4654	58.5	66
91	Magnetic Transition in Monolayer VSe Interface Hybridization. <i>ACS Nano</i> , 2019 , 13, 8997-9004	16.7	57
90	Layer Rotation-Angle-Dependent Excitonic Absorption in van der Waals Heterostructures Revealed by Electron Energy Loss Spectroscopy. <i>ACS Nano</i> , 2019 , 13, 9541-9550	16.7	17
89	From Thin Films to Nanopillars: Tunable Morphology of Covellite via Radio Frequency Magnetron Sputtering for Cost-Effective Photothermal Vaporization. <i>ACS Applied Nano Materials</i> , 2019 , 2, 7441-7448	5.6	3

88	Van der Waals magnets: Wonder building blocks for two-dimensional spintronics?. <i>Informa Mater</i> , 2019 , 1, 479-495	23.1	54
87	Metallic 1T Phase, 3d Electronic Configuration and Charge Density Wave Order in Molecular Beam Epitaxy Grown Monolayer Vanadium DiteLLuride. <i>ACS Nano</i> , 2019 , 13, 12894-12900	16.7	29
86	Three-Dimensional Resonant Exciton in Monolayer Tungsten Diselenide Actuated by Spin-Orbit Coupling. <i>ACS Nano</i> , 2019 , 13, 14529-14539	16.7	5
85	Is Charge-Transfer Doping Possible at the Interfaces of Monolayer VSe with MoO and K?. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 43789-43795	9.5	1
84	Ferromagnet/Two-Dimensional Semiconducting Transition-Metal Dichalcogenide Interface with Perpendicular Magnetic Anisotropy. <i>ACS Nano</i> , 2019 , 13, 2253-2261	16.7	21
83	Surface molecular doping of all-inorganic perovskite using zethrenes molecules. <i>Nano Research</i> , 2019 , 12, 77-84	10	12
82	Investigating the dynamics of excitons in monolayer WSe before and after organic super acid treatment. <i>Nanoscale</i> , 2018 , 10, 9346-9352	7.7	7
81	The organic-2D transition metal dichalcogenide heterointerface. <i>Chemical Society Reviews</i> , 2018 , 47, 3241-3264	58.5	113
80	Quantitative Femtosecond Charge Transfer Dynamics at Organic/Electrode Interfaces Studied by Core-Hole Clock Spectroscopy 2018 , 137-178		1
79	Modification of Vapor Phase Concentrations in MoS Growth Using a NiO Foam Barrier. <i>ACS Nano</i> , 2018 , 12, 1339-1349	16.7	62
78	Selectively Plasmon-Enhanced Second-Harmonic Generation from Monolayer Tungsten Diselenide on Flexible Substrates. <i>ACS Nano</i> , 2018 , 12, 1859-1867	16.7	58
77	Surface Nanostructure Formation and Atomic-Scale Templates for Nanodevices. <i>ACS Omega</i> , 2018 , 3, 3285-3293	3.9	11
76	Supramolecular Assemblies on Surfaces: Nanopatterning, Functionality, and Reactivity. <i>ACS Nano</i> , 2018 , 12, 7445-7481	16.7	146
75	Self-assembled 2D finned covellite (CuS) for resistive RAM. <i>Applied Physics Letters</i> , 2018 , 113, 063102	3.4	4
74	Modulation of Manganite Nanofilm Properties Mediated by Strong Influence of Strontium Titanate Excitons. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 35563-35570	9.5	2
73	Photoluminescence Upconversion by Defects in Hexagonal Boron Nitride. <i>Nano Letters</i> , 2018 , 18, 6898-6905	11.5	48
72	Amorphous molybdenum sulfide on graphene-carbon nanotube hybrids as supercapacitor electrode materials. <i>RSC Advances</i> , 2017 , 7, 6856-6864	3.7	32
71	Molecular Alignment and Electronic Structure of N,NSDibutyl-3,4,9,10-perylene-tetracarboxylic-diimide Molecules on MoS Surfaces. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 5566-5573	9.5	17

70	Connecting Together Nanocenters around the World. <i>ACS Nano</i> , 2017 , 11, 8531-8532	16.7	3
69	Tunable inverted gap in monolayer quasi-metallic MoS induced by strong charge-lattice coupling. <i>Nature Communications</i> , 2017 , 8, 486	17.4	55
68	Oxygen Passivation Mediated Tunability of Trion and Excitons in MoS ₂ . <i>Physical Review Letters</i> , 2017 , 119, 077402	7.4	40
67	Fabry-Perot Cavity-Enhanced Optical Absorption in Ultrasensitive Tunable Photodiodes Based on Hybrid 2D Materials. <i>Nano Letters</i> , 2017 , 17, 7593-7598	11.5	35
66	Giant photoluminescence enhancement in tungsten-diselenide-gold plasmonic hybrid structures. <i>Nature Communications</i> , 2016 , 7, 11283	17.4	201
65	Orbital dependent ultrafast charge transfer dynamics of ferrocenyl-functionalized SAMs on gold studied by core-hole clock spectroscopy. <i>Journal of Physics Condensed Matter</i> , 2016 , 28, 094006	1.8	7
64	Amorphous Molybdenum Sulfide on Graphene-Carbon Nanotube Hybrids as Highly Active Hydrogen Evolution Reaction Catalysts. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 5961-71	9.5	94
63	Graphene-Carbon Nanotube Hybrids as Robust Catalyst Supports in Proton Exchange Membrane Fuel Cells. <i>Journal of the Electrochemical Society</i> , 2016 , 163, F255-F263	3.9	32
62	Enhanced surface transfer doping of diamond by V ₂ O ₅ with improved thermal stability. <i>Applied Physics Letters</i> , 2016 , 108, 042103	3.4	65
61	Van der Waals stacked 2D layered materials for optoelectronics. <i>2D Materials</i> , 2016 , 3, 022001	5.9	161
60	Gap States at Low-Angle Grain Boundaries in Monolayer Tungsten Diselenide. <i>Nano Letters</i> , 2016 , 16, 3682-8	11.5	46
59	Towards single molecule switches. <i>Chemical Society Reviews</i> , 2015 , 44, 2998-3022	58.5	237
58	Tunable room-temperature ferromagnet using an iron-oxide and graphene oxide nanocomposite. <i>Scientific Reports</i> , 2015 , 5, 11430	4.9	10
57	Bandgap tunability at single-layer molybdenum disulphide grain boundaries. <i>Nature Communications</i> , 2015 , 6, 6298	17.4	291
56	Room temperature magnetic graphene oxide-iron oxide nanocomposite based magnetoresistive random access memory devices via spin-dependent trapping of electrons. <i>Small</i> , 2014 , 10, 1945-52	11	19
55	Molecular Orientation and Site Dependent Charge Transfer Dynamics at PTCDA/TiO ₂ (110) Interface Revealed by Resonant Photoemission Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 4160-4166	3.8	28
54	Tunable optical absorption and interactions in graphene via oxygen plasma. <i>Physical Review B</i> , 2014 , 89,	3.3	37
53	Understanding the adsorption of CuPc and ZnPc on noble metal surfaces by combining quantum-mechanical modelling and photoelectron spectroscopy. <i>Molecules</i> , 2014 , 19, 2969-92	4.8	66

52	Optical and electronic structure of quasi-freestanding multilayer graphene on the carbon face of SiC. <i>Europhysics Letters</i> , 2014 , 108, 37009	1.6	7
51	Quantitative femtosecond charge transfer dynamics at organic/electrode interfaces studied by core-hole clock spectroscopy. <i>Advanced Materials</i> , 2014 , 26, 7880-8	24	26
50	Self-assembly of binary molecular nanostructure arrays on graphite. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 12414-27	3.6	19
49	Surface transfer doping of diamond by MoO ₃ : A combined spectroscopic and Hall measurement study. <i>Applied Physics Letters</i> , 2013 , 103, 202112	3.4	86
48	NEXAFS Studies of Molecular Orientations at Molecule-Substrate Interfaces 2013 , 119-151		3
47	Cationic vacancies and anomalous spectral-weight transfer in Ti _{1-x} Ta _x O ₂ thin films studied via polarization-dependent near-edge x-ray absorption fine structure spectroscopy. <i>Physical Review B</i> , 2013 , 87,	3.3	17
46	Modification of PTCDA/Co Interfacial Electronic Structures Using Alq ₃ Buffer Layer. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 25636-25642	3.8	9
45	STM studies of epitaxial graphene. <i>MRS Bulletin</i> , 2012 , 37, 1195-1202	3.2	13
44	Large room-temperature quantum linear magnetoresistance in multilayered epitaxial graphene: Evidence for two-dimensional magnetotransport. <i>Applied Physics Letters</i> , 2012 , 101, 183105	3.4	38
43	Polarization effects on energy-level alignment at the interfaces of polymer organic semiconductor films. <i>Applied Physics Letters</i> , 2012 , 101, 053304	3.4	16
42	Molecular interactions on epitaxial graphene. <i>Physica Scripta</i> , 2012 , T146, 014007	2.6	7
41	Electrical measurement of non-destructively p-type doped graphene using molybdenum trioxide. <i>Applied Physics Letters</i> , 2011 , 99, 012112	3.4	35
40	Room temperature ferromagnetism in partially hydrogenated epitaxial graphene. <i>Applied Physics Letters</i> , 2011 , 98, 193113	3.4	115
39	Giant two-photon absorption in bilayer graphene. <i>Nano Letters</i> , 2011 , 11, 2622-7	11.5	164
38	Charge transfer dynamics of 3,4,9,10-perylene-tetracarboxylic-dianhydride molecules on Au(111) probed by resonant photoemission spectroscopy. <i>Journal of Chemical Physics</i> , 2011 , 135, 174701	3.9	22
37	Organic/Organic Heterojunction Interfaces: Effect of Molecular Orientation. <i>Advanced Functional Materials</i> , 2011 , 21, 410-424	15.6	193
36	Electronic Structure, Chemical Interactions and Molecular Orientations of 3,4,9,10-Perylene-tetracarboxylic-dianhydride on TiO ₂ (110). <i>Journal of Physical Chemistry C</i> , 2011 , 115, 24880-24887	3.8	48
35	Characterization of hexavalent chromium interaction with Sargassum by X-ray absorption fine structure spectroscopy, X-ray photoelectron spectroscopy, and quantum chemistry calculation. <i>Journal of Colloid and Interface Science</i> , 2011 , 356, 741-8	9.3	31

34	A synchrotron-based photoemission study of the MoO ₃ /In interface. <i>Journal of Chemical Physics</i> , 2011 , 134, 034706	3.9	13
33	Role of oxygen incorporation in electronic properties of rubrene films. <i>Applied Physics Letters</i> , 2010 , 97, 032106	3.4	22
32	Tuning the electron injection barrier between Co and C ₆₀ using Alq ₃ buffer layer. <i>Journal of Applied Physics</i> , 2010 , 108, 103719	2.5	6
31	Ti-doped ZnO Thin Films Prepared at Different Ambient Conditions: Electronic Structures and Magnetic Properties. <i>Materials</i> , 2010 , 3, 3642-3653	3.5	22
30	Pt/CNT-Based Electrodes with High Electrochemical Activity and Stability for Proton Exchange Membrane Fuel Cells. <i>Journal of the Electrochemical Society</i> , 2010 , 157, B245	3.9	35
29	Room-temperature ferromagnetism of Cu-doped ZnO films probed by soft X-ray magnetic circular dichroism. <i>Physical Review Letters</i> , 2010 , 105, 207201	7.4	194
28	Template-directed molecular assembly on silicon carbide nanomesh: comparison between CuPc and pentacene. <i>ACS Nano</i> , 2010 , 4, 849-54	16.7	13
27	Copper phthalocyanine on hydrogenated and bare diamond (001)-2 x 1: influence of interfacial interactions on molecular orientations. <i>Langmuir</i> , 2010 , 26, 165-72	4	21
26	Interplay of processing, morphological order, and charge-carrier mobility in polythiophene thin films deposited by different methods: comparison of spin-cast, drop-cast, and inkjet-printed films. <i>Langmuir</i> , 2010 , 26, 15494-507	4	32
25	Growth dynamics and kinetics of monolayer and multilayer graphene on a 6H-SiC(0001) substrate. <i>Physical Chemistry Chemical Physics</i> , 2010 , 12, 13522-33	3.6	38
24	Temperature-dependent transition from injection-limited to space-charge-limited current in metal-organic diodes. <i>Applied Physics Letters</i> , 2009 , 95, 143303	3.4	8
23	Electronic Manifestation of Cation-Vacancy-Induced Magnetic Moments in a Transparent Oxide Semiconductor: Anatase Nb:TiO ₂ . <i>Advanced Materials</i> , 2009 , 21, 2282-2287	24	88
22	Plasmon dispersion on epitaxial graphene studied using high-resolution electron energy-loss spectroscopy. <i>Physical Review B</i> , 2009 , 80,	3.3	106
21	Tailoring the Electron Affinity and Electron Emission of Diamond (100) 2 x 1 by Surface Functionalization Using an Organic Semiconductor. <i>Chemistry of Materials</i> , 2008 , 20, 6871-6879	9.6	13
20	Local Structures of Zn _{1-x} TM _x O (TM = Co, Mn, and Cu) Nanoparticles Studied by X-ray Absorption Fine Structure Spectroscopy and Multiple Scattering Calculations. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 13410-13418	3.8	17
19	Probing epitaxial growth of graphene on silicon carbide by metal decoration. <i>Applied Physics Letters</i> , 2008 , 92, 104102	3.4	56
18	Localized breakdown in dielectrics and macroscopic charge transport through the whole gate stack: A comparative study. <i>Applied Physics Letters</i> , 2008 , 92, 012914	3.4	2
17	Local Structural Evolution of Co-Doped ZnO Nanoparticles upon Calcination Studied by in Situ Quick-Scan XAFS. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 3489-3495	3.8	28

16	STUDY OF THIN FILMS AND AQUEOUS CHLORINE SOLUTION USING X-RAY ABSORPTION FINE STRUCTURE SPECTROSCOPY. <i>Advances in Synchrotron Radiation</i> , 2008 , 01, 79-87		2
15	CHARACTERIZATION OF MATERIALS FOR MOLECULAR ELECTRONICS AND DATA STORAGE BY SOFT X-RAY SPECTROSCOPY. <i>Advances in Synchrotron Radiation</i> , 2008 , 01, 127-133		
14	ULTRAFAST CHARGE TRANSFER ACROSS MOLECULE/METAL INTERFACES BY RESONANT PHOTOEMISSION SPECTROSCOPY. <i>Advances in Synchrotron Radiation</i> , 2008 , 01, 89-104		
13	Synthesis and characterization of a new ternary imide-Li ₂ Ca(NH) ₂ . <i>Inorganic Chemistry</i> , 2007 , 46, 517-21	5.1	38
12	Molecular Orientation and Ordering during Initial Growth of Copper Phthalocyanine on Si(111). <i>Journal of Physical Chemistry C</i> , 2007 , 111, 3454-3458	3.8	15
11	Effect of molecule-substrate interaction on thin-film structures and molecular orientation of pentacene on silver and gold. <i>Langmuir</i> , 2007 , 23, 8336-42	4	44
10	Hot electron transport in Au ₁₀₀ /SiO ₂ /Si structures studied by ballistic electron emission spectroscopy. <i>Applied Physics Letters</i> , 2007 , 90, 142915	3.4	8
9	Thickness-dependent energy level alignment of rubrene adsorbed on Au(111). <i>Applied Physics Letters</i> , 2007 , 90, 132121	3.4	35
8	Tuning the electron affinity and secondary electron emission of diamond (100) surfaces by Diels-Alder reaction. <i>Langmuir</i> , 2007 , 23, 9722-7	4	15
7	Surface transfer doping of diamond (100) by tetrafluoro-tetracyanoquinodimethane. <i>Journal of the American Chemical Society</i> , 2007 , 129, 8084-5	16.4	93
6	Synthesis and Structural Characterization of a New Alkaline Earth Imide: MgCa(NH) ₂ . <i>European Journal of Inorganic Chemistry</i> , 2006 , 2006, 4368-4373	2.3	19
5	Large damage threshold and small electron escape depth in X-ray absorption spectroscopy of a conjugated polymer thin film. <i>Langmuir</i> , 2006 , 22, 8587-94	4	48
4	Ultrafast electron transfer from oligo(p-phenylene-ethynylene)thiol to gold. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 674-6	3.4	20
3	Configuration-dependent interface charge transfer at a molecule-metal junction. <i>Journal of the American Chemical Society</i> , 2006 , 128, 8003-7	16.4	34
2	Modified carbon nanotubes as broadband optical limiting nanomaterials. <i>Journal of Materials Research</i> , 2006 , 21, 2758-2766	2.5	59
1	Investigation of Titanium Silicide Formation Using Secondary Ion Mass Spectrometry. <i>Materials Research Society Symposia Proceedings</i> , 1994 , 342, 117		0