Anton Tadich

List of Publications by Year in descending order

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103 papers	3,514 citations	172207 29 h-index	149479 56 g-index
103 all docs	103 docs citations	103 times ranked	6462 citing authors

#	Article	IF	Citations
1	Creating a Stable Oxide at the Surface of Black Phosphorus. ACS Applied Materials & Interfaces, 2015, 7, 14557-14562.	4.0	318
2	Flexible, Printable Softâ€Xâ€Ray Detectors Based on Allâ€Inorganic Perovskite Quantum Dots. Advanced Materials, 2019, 31, e1901644.	11.1	221
3	Structural and electronic properties of graphite layers grown on SiC(0001). Surface Science, 2006, 600, 3906-3911.	0.8	178
4	The Current Performance of the Wide Range (90â€“2500 eV) Soft X-ray Beamline at the Australian Synchrotron. AIP Conference Proceedings, 2010, , .	0.3	168
5	Electric-field-tuned topological phase transition in ultrathin Na3Bi. Nature, 2018, 564, 390-394.	13.7	155
6	Band alignments of different buffer layers (CdS, Zn(O,S), and In2S3) on Cu2ZnSnS4. Applied Physics Letters, 2014, 104, .	1.5	148
7	Quick AS NEXAFS Tool(QANT): a program for NEXAFS loading and analysis developed at the Australian Synchrotron. Journal of Synchrotron Radiation, 2016, 23, 374-380.	1.0	110
8	Al2O3 prepared by atomic layer deposition as gate dielectric on 6H-SiC(0001). Applied Physics Letters, 2003, 83, 1830-1832.	1.5	98
9	A graphene field-effect transistor as a molecule-specific probe of DNA nucleobases. Nature Communications, 2015, 6, 6563.	5.8	90
10	Investigating the Local Structure of Lanthanoid Hafnates Ln₂Hf₂O₇ via Diffraction and Spectroscopy. Journal of Physical Chemistry C, 2013, 117, 2266-2273.	1.5	80
11	Tuning the Electronic Structure of NiO via Li Doping for the Fast Oxygen Evolution Reaction. Chemistry of Materials, 2019, 31, 419-428.	3.2	78
12	Increased activity in the oxygen evolution reaction by Fe⁴⁺-induced hole states in perovskite La_{1â^'x}Sr_xFeO₃. Journal of Materials Chemistry A, 2020, 8, 4407-4415.	5.2	78
13	Evidence for Primal sp² Defects at the Diamond Surface: Candidates for Electron Trapping and Noise Sources. Advanced Materials Interfaces, 2019, 6, 1801449.	1.9	75
14	Elucidating the electronic structure of CuWO₄ thin films for enhanced photoelectrochemical water splitting. Journal of Materials Chemistry A, 2019, 7, 11895-11907.	5.2	67
15	Stability and Surface Reconstruction of Topological Insulator Bi₂Se₃ on Exposure to Atmosphere. Journal of Physical Chemistry C, 2014, 118, 20413-20419.	1.5	62
16	Nitrogen Terminated Diamond. Advanced Materials Interfaces, 2015, 2, 1500079.	1.9	61
17	First results from a second generation toroidal electron spectrometer. Journal of Electron Spectroscopy and Related Phenomena, 2005, 144-147, 1001-1004.	0.8	59
18	Surface transfer doping of hydrogen-terminated diamond by C60F48: Energy level scheme and doping efficiency. Journal of Chemical Physics, 2012, 136, 124701.	1.2	59

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19	Diamond Surfaces with Airâ€Stable Negative Electron Affinity and Giant Electron Yield Enhancement. Advanced Functional Materials, 2013, 23, 5608-5614.	7.8	58
20	Electronic structure and<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>p</mml:mi></mml:math>-type conduction mechanism of spinel cobaltite oxide thin films. Physical Review B, 2019, 100, .	1.1	54
21	Electronic Properties of High-Quality Epitaxial Topological Dirac Semimetal Thin Films. Nano Letters, 2016, 16, 3210-3214.	4.5	47
22	Electronic structure of EuN: Growth, spectroscopy, and theory. Physical Review B, 2011, 84, .	1.1	38
23	Strainâ€Induced Isomerization in Oneâ€Dimensional Metalâ€“Organic Chains. Angewandte Chemie - International Edition, 2019, 58, 18591-18597.	7.2	37
24	Depth-profiling of Yb³⁺ sensitizer ions in NaYF₄ upconversion nanoparticles. Nanoscale, 2017, 9, 7719-7726.	2.8	36
25	Extremely high negative electron affinity of diamond via magnesium adsorption. Physical Review B, 2015, 92, .	1.1	34
26	Graphene field effect transistor as a probe of electronic structure and charge transfer at organic moleculeâ€“graphene interfaces. Nanoscale, 2015, 7, 1471-1478.	2.8	34
27	Hydrogen terminated4Hâ^'SiC(11Â¯00)and(112Â¯0)surfaces studied by synchrotron x-ray photoelectron spectroscopy. Physical Review B, 2005, 71, .	1.1	33
28	Iron-based trinuclear metal-organic nanostructures on a surface with local charge accumulation. Nature Communications, 2018, 9, 3211.	5.8	31
29	Crossover from 2D Ferromagnetic Insulator to Wide Band Gap Quantum Anomalous Hall Insulator in Ultrathin MnBi₂Te₄. ACS Nano, 2021, 15, 13444-13452.	7.3	31
30	Photoelectron emission from lithiated diamond. Physica Status Solidi (A) Applications and Materials Science, 2014, 211, 2209-2222.	0.8	30
31	Tuning the charge carriers in epitaxial graphene on SiC(0001) from electron to hole via molecular doping with C60F48. Applied Physics Letters, 2013, 102, .	1.5	29
32	Air-Stable Electron Depletion of Bi₂Se₃ Using Molybdenum Trioxide into the Topological Regime. ACS Nano, 2014, 8, 6400-6406.	7.3	29
33	Surface band bending and electron affinity as a function of hole accumulation density in surface conducting diamond. Applied Physics Letters, 2011, 98, 102101.	1.5	28
34	Formation of a silicon terminated (100) diamond surface. Applied Physics Letters, 2015, 106, .	1.5	28
35	Freestanding n-Doped Graphene via Intercalation of Calcium and Magnesium into the Buffer Layerâ€“SiC(0001) Interface. Chemistry of Materials, 2020, 32, 6464-6482.	3.2	28
36	Reversible Oxidation of Blue Phosphorus Monolayer on Au(111). Nano Letters, 2019, 19, 5340-5346.	4.5	27

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37	Electronic Band Structure of In-Plane Ferroelectric van der Waals Î²â€²-In₂Se₃. ACS Applied Electronic Materials, 2020, 2, 213-219.	2.0	26
38	Work function, band bending, and electron affinity in surface conducting (100) diamond. Physica Status Solidi (A) Applications and Materials Science, 2011, 208, 2062-2066.	0.8	25
39	Molecular nitrogen acceptors in ZnO nanowires induced by nitrogen plasma annealing. Physical Review B, 2015, 92, .	1.1	24
40	The surface electronic structure of silicon terminated (100) diamond. Nanotechnology, 2016, 27, 275201.	1.3	24
41	New Insights into the Substrateâ€“Plasma Polymer Interface. Journal of Physical Chemistry B, 2011, 115, 6495-6502.	1.2	23
42	Correlation effects at idealSiC{0001}â^'(1Ã—1)surfaces. Physical Review B, 2006, 73, .	1.1	22
43	Doping efficiency and energy-level scheme in C60F48-doped zincâ€“tetraphenylporphyrin films. Organic Electronics, 2013, 14, 169-174.	1.4	22
44	Charge Transfer Doping of Silicon. Physical Review Letters, 2014, 112, 155502.	2.9	22
45	Single-Molecule Imaging of Activated Nitrogen Adsorption on Individual Manganese Phthalocyanine. Nano Letters, 2015, 15, 3181-3188.	4.5	22
46	Probing the effect of the Ptâ€“Niâ€“Pt(111) bimetallic surface electronic structures on the ammonia decomposition reaction. Nanoscale, 2017, 9, 666-672.	2.8	22
47	Molecular Doping the Topological Dirac Semimetal Na₃Bi across the Charge Neutrality Point with F4-TCNQ. ACS Applied Materials & Interfaces, 2016, 8, 16412-16418.	4.0	21
48	Anion Disorder in Lanthanoid Zirconates Gd2â€“xTbxZr2O7. Inorganic Chemistry, 2013, 52, 8409-8415.	1.9	20
49	Solid source growth of graphene with Niâ€“Cu catalysts: towards high qualityin situgraphene on silicon. Journal Physics D: Applied Physics, 2017, 50, 095302.	1.3	20
50	Designing Kagome Lattice from Potassium Atoms on Phosphorusâ€“Gold Surface Alloy. Nano Letters, 2020, 20, 5583-5589.	4.5	20
51	Investigating the Enantioselectivity of Alanine on a Chiral Cu{421}^R Surface. Journal of Physical Chemistry C, 2012, 116, 9472-9480.	1.5	19
52	NEXAFS spectroscopy of CVD diamond films exposed to fusion relevant hydrogen plasma. Diamond and Related Materials, 2013, 34, 45-49.	1.8	19
53	Role of Order in the Mechanism of Charge Transport across Single-Stranded and Double-Stranded DNA Monolayers in Tunnel Junctions. Journal of the American Chemical Society, 2021, 143, 20309-20319.	6.6	19
54	Probing Long- and Short-Range Disorder in Y₂Ti_{2â€“x}Hf_xO₇ by Diffraction and Spectroscopy Techniques. Journal of Physical Chemistry C, 2016, 120, 26465-26479.	1.5	18

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55	Perovskite Xâ€Ray Detectors: Flexible, Printable Softâ€Xâ€Ray Detectors Based on Allâ€Inorganic Perovskite Quantum Dots (Adv. Mater. 30/2019). Advanced Materials, 2019, 31, 1970214.	11.1	18
56	Surface transfer doping of diamond with a molecular heterojunction. Applied Physics Letters, 2012, 100, .	1.5	17
57	Phase Transformation in Laserâ€Induced Microâ€Explosion in Olivine (Fe,Mg)₂SiO₄. Advanced Engineering Materials, 2014, 16, 767-773.	1.6	16
58	Fluorination of the diamond surface by photoinduced dissociation ofC60F48. Physical Review B, 2011, 84, .	1.1	15
59	Sculpting nanoscale precipitation patterns in nanocomposite thin films via hyperthermal ion deposition. Applied Physics Letters, 2010, 97, .	1.5	14
60	Surface and interface analysis of poly-hydroxyethylmethacrylate-coated anodic aluminium oxide membranes. Applied Surface Science, 2014, 289, 560-563.	3.1	14
61	P-type surface transfer doping of oxidised silicon terminated (100) diamond. Applied Physics Letters, 2017, 110, .	1.5	14
62	Oxidation of the silicon terminated (1â€‰0â€‰0) diamond surface. Journal of Physics Condensed Matter, 2017, 29, 025003.	0.7	14
63	Electronic properties of clean unreconstructed 6Hâ€“SiC(0001) surfaces studied by angle resolved photoelectron spectroscopy. Surface Science, 2006, 600, 3845-3850.	0.8	13
64	High resolution core level spectroscopy of hydrogen-terminated (1 0 0) diamond. Journal of Physics Condensed Matter, 2016, 28, 305001.	0.7	13
65	NEXAFS N K -edge study of the bonding structure on Al/Si doped sputtered CrN coatings. Journal of Alloys and Compounds, 2016, 661, 268-273.	2.8	13
66	Metal Evaporation-Induced Degradation of Fullerene Acceptors in Polymer/Fullerene Solar Cells. ACS Applied Materials & Interfaces, 2016, 8, 2247-2254.	4.0	13
67	Quasi free-standing epitaxial graphene fabrication on 3Câ€“SiC/Si(111). Nanotechnology, 2018, 29, 145601.	1.3	13
68	High performance broadband photo and soft X-ray detectors based on two dimensional CrSiTe₃. Journal of Materials Chemistry C, 2020, 8, 6659-6666.	2.7	13
69	Reversible Tuning of Interfacial and Intramolecular Charge Transfer in Individual MnPc Molecules. Nano Letters, 2015, 15, 8091-8098.	4.5	12
70	Validation of Soil Phosphate Removal by Alkaline and Acidic Reagents in a Vertosol Soil using XANES Spectroscopy. Communications in Soil Science and Plant Analysis, 2015, 46, 1998-2017.	0.6	11
71	Magnesium-intercalated graphene on SiC: Highly n-doped air-stable bilayer graphene at extreme displacement fields. Applied Surface Science, 2021, 541, 148612.	3.1	11
72	The effect of salt and particle concentration on the dynamic self-assembly of detonation nanodiamonds in water. Nanoscale, 2021, 13, 14110-14118.	2.8	11

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73	p-f hybridization in the ferromagnetic semiconductor HoN. Applied Physics Letters, 2012, 100, 072108.	1.5	10
74	Diffraction and spectroscopic study of pyrochlores Bi2â˜xFe1+xSbO7. Journal of Alloys and Compounds, 2014, 589, 425-430.	2.8	8
75	Enantiospecific Adsorption and Decomposition of Cysteine Enantiomers on the Chiral Cu{421}^R Surface. Journal of Physical Chemistry C, 2019, 123, 20829-20837.	1.5	8
76	Fluorescence and Physico-Chemical Properties of Hydrogenated Detonation Nanodiamonds. Journal of Carbon Research, 2020, 6, 7.	1.4	8
77	Valence-band structure and critical point energies of diamond along [100]. Physical Review B, 2013, 87, .	1.1	7
78	Germanium terminated (1â€‰0â€‰0) diamond. Journal of Physics Condensed Matter, 2017, 29, 145002.	0.7	7
79	Thermal Stability and Oxidation of Group IV Terminated (100) Diamond Surfaces. Physica Status Solidi (A) Applications and Materials Science, 2018, 215, 1800283.	0.8	7
80	Adsorption differences between low coverage enantiomers of alanine on the chiral Cu{421}^R surface. Physical Chemistry Chemical Physics, 2017, 19, 13562-13570.	1.3	6
81	XPS/NEXAFS spectroscopic and conductance studies of glycine on AlGaN/GaN transistor devices. Applied Surface Science, 2018, 435, 23-30.	3.1	6
82	Electron effective attenuation length in epitaxial graphene on SiC. Nanotechnology, 2019, 30, 025704.	1.3	6
83	Development of a siliconâ€“diamond interface on (111) diamond. Applied Physics Letters, 2020, 116, .	1.5	6
84	Low-Temperature Growth of Graphene on a Semiconductor. Journal of Physical Chemistry C, 2021, 125, 4243-4252.	1.5	6
85	Increasing the Rate of Magnesium Intercalation Underneath Epitaxial Graphene on 6Hâ€SiC(0001). Advanced Materials Interfaces, 2021, 8, 2101598.	1.9	6
86	Apparent â€œthree-dimensionalâ€•Fermi surface of transition-metal monolayers. Physical Review B, 2009, 79, .	1.1	5
87	Determining the Orientation of a Chiral Substrate Using Full-Hemisphere Angle-Resolved Photoelectron Spectroscopy. Physical Review Letters, 2011, 107, 175501.	2.9	5
88	Epitaxial Formation of SiC on (100) Diamond. ACS Applied Electronic Materials, 2020, 2, 2003-2009.	2.0	5
89	Formation of a Stable Surface Oxide in MnBi₂Te₄ Thin Films. ACS Applied Materials & Interfaces, 2022, 14, 6102-6108.	4.0	5
90	Surface Band Structure Studies of Si Rich Reconstructions on 4H-SiC(1-100). Materials Science Forum, 2005, 483-485, 547-550.	0.3	4

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91	Photoabsorption and photoemission of magnesium diboride at the Mg K edge. Journal of Physics Condensed Matter, 2009, 21, 405701.	0.7	4
92	Structural and magnetic studies of the electron doped manganites Sr_{0.65}Pr_{0.35â^'x}Ce_xMnO₃(0.00 â‰¤xâ‰¤0.7	0.7	4
93	Direct observation of phonon emission from hot electrons: spectral features in diamond secondary electron emission. Journal of Physics Condensed Matter, 2014, 26, 395008.	0.7	4
94	The templated growth of a chiral transition metal chalcogenide. Surface Science, 2014, 629, 94-101.	0.8	4
95	Full Hemisphere Fermi Surface Mapping Using A Novel Toroidal Electron Spectrometer. , 2010, , .		3
96	Is Charge-Transfer Doping Possible at the Interfaces of Monolayer VSe₂ with MoO₃ and K?. ACS Applied Materials & Interfaces, 2019, 11, 43789-43795.	4.0	3
97	On-Surface Synthesis of Nitrogen-Substituted Gold-Phosphorus Porous Network. Chemistry of Materials, 2020, 32, 8561-8566.	3.2	3
98	Estimate of control voltage tolerances for a photo-electron analyzer of toroidal design. Brazilian Journal of Physics, 2003, 33, 788-791.	0.7	2
99	Mapping disorderâ€“order induced changes to the Fermi surface of Cu3Au using a new toroidal electron energy analyser. Journal of Electron Spectroscopy and Related Phenomena, 2005, 144-147, 515-518.	0.8	1
100	Publisher's Note: Correlation effects at idealSiC{0001}â^'(1Ã—1)surfaces [Phys. Rev. B73, 075412 (2006)]. Physical Review B, 2006, 73, .	1.1	1
101	Electronic States Studies of ZnOâ•TiO[sub 2] Core-Shell Nanostructure by Photoelectron Spectroscopy and X-Ray Absorption Near Edge Spectroscopy. , 2010, , .		0
102	Air-stable doping of Bi<inf>2</inf>Se<inf>3</inf> by MoO<inf>3</inf> into the topological regime. , 2014, , .		0
103	Fluorination of the silicon-terminated (100) diamond surface using C60F48. Diamond and Related Materials, 2022, 126, 109084.	1.8	0