# Yuan-Chieh Tseng

List of Publications by Year
in descending order



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|---|---|---|---|
| 48 papers | 802 citations | 623734 14 h-index | 526287 27 g-index |
| 48 all docs | 48 docs citations | 48 times ranked | 1530 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Investigating the mechanism of magnetic phase transition temperature of FeRh thin films by doping copper impurities. Materials Chemistry and Physics, 2022, 275, 125252. | 4.0 | 0 |
| 2 | A Spinâ€Orbit Torque Ratchet at Ferromagnet/Antiferromagnet Interface via Exchange Spring. Advanced Functional Materials, 2022, 32, . | 14.9 | 8 |
| 3 | Interface imperfection effects on spin transfer torque switching: an atomistic approach. Journal Physics D: Applied Physics, 2022, 55, 215002. | 2.8 | 1 |
| 4 | Biological sensing using anomalous hall effect devices. Nanotechnology, 2022, 33, 335502. | 2.6 | 1 |
| 5 | Visualizing Ferroelectric Uniformity of Hf<sub>1â€“x</sub>Zr<sub>x</sub>O<sub>2</sub> Films Using X-ray Mapping. ACS Applied Materials & Interfaces, 2021, 13, 29212-29221. | 8.0 | 13 |
| 6 | Insertion Trade-off Effects on the Spin-Transfer Torque Memory Explored by In Situ X-ray. ACS Applied Electronic Materials, 2021, 3, 4047-4055. | 4.3 | 2 |
| 7 | Impacts of surface nitridation on crystalline ferroelectric phase of Hf1-xZrxO2 and ferroelectric FET performance. Applied Physics Letters, 2021, 119, . | 3.3 | 11 |
| 8 | Pulse-Mediated Electronic Tuning of the MoS<sub>2</sub>â€“Perovskite Ferroelectric Field Effect Transistors. ACS Applied Electronic Materials, 2020, 2, 3843-3852. | 4.3 | 2 |
| 9 | Effects of synthetic antiferromagnetic coupling on back-hopping of spin-transfer torque devices. Applied Physics Letters, 2020, 117, 072405. | 3.3 | 4 |
| 10 | Role of electrode-induced oxygen vacancies in regulating polarization wake-up in ferroelectric capacitors. Applied Surface Science, 2020, 528, 147014. | 6.1 | 21 |
| 11 | GdFe<sub>0.8</sub>Ni<sub>0.2</sub>O<sub>3</sub>: A Multiferroic Material for Low-Power Spintronic Devices with High Storage Capacity. ACS Applied Materials & Interfaces, 2019, 11, 31562-31572. | 8.0 | 25 |
| 12 | Pulse-Driven Nonvolatile Perovskite Memory with Photovoltaic Read-Out Characteristics. ACS Applied Materials & Interfaces, 2019, 11, 33803-33810. | 8.0 | 11 |
| 13 | Study of Al interdiffusion in ultrathin Î²-Ta/Co2FeAl/MgO heterostructures for enhanced spin-orbit torque. Physica B: Condensed Matter, 2019, 574, 411662. | 2.7 | 5 |
| 14 | Study of the Band Alignment between Atomic-Layer-Deposited High-Îº Dielectrics and MoS<sub>2</sub>Film. ECS Journal of Solid State Science and Technology, 2018, 7, N46-N50. | 1.8 | 2 |
| 15 | Tailor magnetic order and spin-polarized gap states of opto-spintronic compounds by carrier mediation. Journal of Magnetism and Magnetic Materials, 2018, 460, 78-82. | 2.3 | 1 |
| 16 | Heterostructured ferromagnetâ€“topological insulator with dual-phase magnetic properties. RSC Advances, 2018, 8, 7785-7791. | 3.6 | 13 |
| 17 | Realization of an H2/CO dual-gas sensor using CoPd magnetic structures. Applied Physics Letters, 2018, 113, . | 3.3 | 13 |
| 18 | Superparamagnetic ground state of CoFeB/MgO magnetic tunnel junction with dual-barrier. Applied Surface Science, 2018, 457, 529-535. | 6.1 | 3 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Spin filtering of a termination-controlled LSMO/Alq<sub>3</sub> heterojunction for an organic spin valve. Journal of Materials Chemistry C, 2017, 5, 9128-9137. | 5.5 | 9 |
| 20 | Using magnetic structure of Co40Pd60/Cu for the sensing of hydrogen. Applied Physics Letters, 2017, 111, . | 3.3 | 15 |
| 21 | Voltage-induced Interface Reconstruction and Electrical Instability of the Ferromagnet-Semiconductor Device. Scientific Reports, 2017, 7, 339. | 3.3 | 6 |
| 22 | Phase-driven magneto-electrical characteristics of single-layer MoS<sub>2</sub>. Nanoscale, 2016, 8, 5627-5633. | 5.6 | 26 |
| 23 | Competing Anisotropy-Tunneling Correlation of the CoFeB/MgO Perpendicular Magnetic Tunnel Junction: An Electronic Approach. Scientific Reports, 2015, 5, 17169. | 3.3 | 16 |
| 24 | Low Cost Facile Synthesis of Large-Area Cobalt Hydroxide Nanorods with Remarkable Pseudocapacitance. ACS Applied Materials & Interfaces, 2015, 7, 9147-9156. | 8.0 | 38 |
| 25 | Structural imperfections and attendant localized/itinerant ferromagnetism in ZnO nanoparticles. Journal Physics D: Applied Physics, 2014, 47, 345003. | 2.8 | 18 |
| 26 | Structural characterizations of PtRu nanoparticles by galvanostatic pulse electrodeposition. Journal of Alloys and Compounds, 2014, 583, 170-175. | 5.5 | 8 |
| 27 | Soft and hard natures of Nd2Fe14B permanent magnet explored by first-order-reversal-curves. Journal of Magnetism and Magnetic Materials, 2014, 370, 45-53. | 2.3 | 28 |
| 28 | A facile green antisolvent approach to Cu<sup>2+</sup>-doped ZnO nanocrystals with visible-light-responsive photoactivities. Nanoscale, 2014, 6, 8796. | 5.6 | 142 |
| 29 | Sharp variation in coercivity and magnetic interactions in patterned CoxNi1â^'x nanoarrays. Journal of Applied Physics, 2013, 114, . | 2.5 | 5 |
| 30 | Structural characterizations of Cu3Pt electrocatalyst featuring Pt-rich surface layers synthesized via mechanical alloying and selective dissolution routes. Journal of Alloys and Compounds, 2013, 552, 329-335. | 5.5 | 4 |
| 31 | Complex magnetic interactions and charge transfer effects in highly ordered NixFe1â^'x nano-wires. Journal of Magnetism and Magnetic Materials, 2013, 332, 21-27. | 2.3 | 6 |
| 32 | Element-specific study of the coupled magneto-structural and magneto-electronic properties of CoNi nanoarrays. Journal of Nanoparticle Research, 2013, 15, 1. | 1.9 | 1 |
| 33 | Surface modification of commercial PtRu nanoparticles for methanol electro-oxidation. Journal of Power Sources, 2013, 240, 122-130. | 7.8 | 18 |
| 34 | Instrument for x-ray absorption spectroscopy with in situ electrical control characterizations. Review of Scientific Instruments, 2013, 84, 123904. | 1.3 | 2 |
| 35 | Core-Shell Ni-NiO Nano Arrays for UV Photodetection without an External Bias. Journal of the Electrochemical Society, 2012, 159, K78-K82. | 2.9 | 11 |
| 36 | Competing magnetic interactions and interfacial frozen-spins in Ni-NiO core-shell nano-rods. Journal of Applied Physics, 2012, 111, 063919. | 2.5 | 13 |

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|---|---|---|---|
| 37 | Controlled synthesis and magnetic properties of nickel phosphide and bimetallic ironâ€“nickel phosphide nanorods. Journal of Nanoparticle Research, 2012, 14, 1. | 1.9 | 8 |
| 38 | Coupled microstructural and magnetic transition in Co-doped Ni nano-arrays. Journal of Applied Physics, 2011, 110, . | 2.5 | 4 |
| 39 | Structural morphology and magnetism of electroless-plated NiP films on a surface-modified Si substrate. Thin Solid Films, 2011, 520, 1102-1108. | 1.8 | 7 |
| 40 | Magnetic properties of electroless-deposited Ni and Niâ€“NiO coreâ€“shell nano-arrays. Journal of Magnetism and Magnetic Materials, 2011, 323, 1950-1953. | 2.3 | 12 |
| 41 | Magnetostructural phase transition in electroless-plated Ni nanoarrays. Journal of Applied Physics, 2011, 109, . | 2.5 | 9 |
| 42 | Effect of Si doping and applied pressure upon magnetostructural properties of Tb<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow | | |