

Yuan-Chieh Tseng

List of Publications by Year in descending order

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48
papers

802
citations

623734

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526287

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48
all docs

48
docs citations

48
times ranked

1530
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | A facile green antisolvent approach to Cu ²⁺ -doped ZnO nanocrystals with visible-light-responsive photoactivities. <i>Nanoscale</i> , 2014, 6, 8796. | 5.6 | 142 |
| 2 | Nonzero orbital moment in high coercivity μ -Fe low-temperature collapse of the magnetocrystalline anisotropy. <i>Physical Review B</i> , 2009, 79, . | 3.2 | 105 |
| 3 | Pressure-Induced Magnetic Transition in Manganite ($T_{\text{ETQ}} = 1.0784314 \text{ K}$). <i>Physical Review Letters</i> , 2009, 102, 237201. | 7.8 | 62 |
| 4 | Direct probe of heterojunction effects upon photoconductive properties of TiO ₂ nanotubes fabricated by atomic layer deposition. <i>Nanotechnology</i> , 2010, 21, 225602. | 2.6 | 51 |
| 5 | Low Cost Facile Synthesis of Large-Area Cobalt Hydroxide Nanorods with Remarkable Pseudocapacitance. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 9147-9156. | 8.0 | 38 |
| 6 | Soft and hard natures of Nd ₂ Fe ₁₄ B permanent magnet explored by first-order-reversal-curves. <i>Journal of Magnetism and Magnetic Materials</i> , 2014, 370, 45-53. | 2.3 | 28 |
| 7 | Phase-driven magneto-electrical characteristics of single-layer MoS ₂ . <i>Nanoscale</i> , 2016, 8, 5627-5633. | 5.6 | 26 |
| 8 | GdFe _{0.8} Ni _{0.2} O ₃ : A Multiferroic Material for Low-Power Spintronic Devices with High Storage Capacity. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 31562-31572. | 8.0 | 25 |
| 9 | Superparamagnetic and ferromagnetic Ni nanorod arrays fabricated on Si substrates using electroless deposition. <i>Nanotechnology</i> , 2009, 20, 415703. | 2.6 | 21 |
| 10 | Role of electrode-induced oxygen vacancies in regulating polarization wake-up in ferroelectric capacitors. <i>Applied Surface Science</i> , 2020, 528, 147014. | 6.1 | 21 |
| 11 | Surface modification of commercial PtRu nanoparticles for methanol electro-oxidation. <i>Journal of Power Sources</i> , 2013, 240, 122-130. | 7.8 | 18 |
| 12 | Structural imperfections and attendant localized/itinerant ferromagnetism in ZnO nanoparticles. <i>Journal Physics D: Applied Physics</i> , 2014, 47, 345003. | 2.8 | 18 |
| 13 | Competing Anisotropy-Tunneling Correlation of the CoFeB/MgO Perpendicular Magnetic Tunnel Junction: An Electronic Approach. <i>Scientific Reports</i> , 2015, 5, 17169. | 3.3 | 16 |
| 14 | Using magnetic structure of Co ₄₀ Pd ₆₀ /Cu for the sensing of hydrogen. <i>Applied Physics Letters</i> , 2017, 111, . | 3.3 | 15 |
| 15 | Competing magnetic interactions and interfacial frozen-spins in Ni-NiO core-shell nano-rods. <i>Journal of Applied Physics</i> , 2012, 111, 063919. | 2.5 | 13 |
| 16 | Heterostructured ferromagnetic-topological insulator with dual-phase magnetic properties. <i>RSC Advances</i> , 2018, 8, 7785-7791. | 3.6 | 13 |
| 17 | Realization of an H ₂ /CO dual-gas sensor using CoPd magnetic structures. <i>Applied Physics Letters</i> , 2018, 113, . | 3.3 | 13 |
| 18 | Visualizing Ferroelectric Uniformity of Hf _{1-x} Zr _x O ₂ Films Using X-ray Mapping. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 29212-29221. | 8.0 | 13 |

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|----|---|-----|-----------|
| 19 | Enhanced Polarization Switching Characteristics of Pb(Zr _{0.5} Ti _{0.5})O ₃ /Pt Nanocomposite Thin Films. <i>Journal of Materials Research</i> , 2004, 19, 1043-1049. | 2.6 | 12 |
| 20 | Magnetic properties of electroless-deposited Ni and Ni/NiO core-shell nano-arrays. <i>Journal of Magnetism and Magnetic Materials</i> , 2011, 323, 1950-1953. | 2.3 | 12 |
| 21 | Core-Shell Ni-NiO Nano Arrays for UV Photodetection without an External Bias. <i>Journal of the Electrochemical Society</i> , 2012, 159, K78-K82. | 2.9 | 11 |
| 22 | Pulse-Driven Nonvolatile Perovskite Memory with Photovoltaic Read-Out Characteristics. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 33803-33810. | 8.0 | 11 |
| 23 | Impacts of surface nitridation on crystalline ferroelectric phase of Hf _{1-x} Zr _x O ₂ and ferroelectric FET performance. <i>Applied Physics Letters</i> , 2021, 119, . | 3.3 | 11 |
| 24 | Magnetostructural phase transition in electroless-plated Ni nanoarrays. <i>Journal of Applied Physics</i> , 2011, 109, . | 2.5 | 9 |
| 25 | Spin filtering of a termination-controlled LSMO/Alq ₃ heterojunction for an organic spin valve. <i>Journal of Materials Chemistry C</i> , 2017, 5, 9128-9137. Effect of Si doping and applied pressure upon magnetostructural properties of Tb ₃ | 5.5 | 9 |
| 26 | $\text{display}=\text{"inline"}\text{ } \langle \text{mml:mrow} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mrow} \rangle$ | | |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 37 | Effects of synthetic antiferromagnetic coupling on back-hopping of spin-transfer torque devices. Applied Physics Letters, 2020, 117, 072405. | 3.3 | 4 |
| 38 | Superparamagnetic ground state of CoFeB/MgO magnetic tunnel junction with dual-barrier. Applied Surface Science, 2018, 457, 529-535. | 6.1 | 3 |
| 39 | Instrument for x-ray absorption spectroscopy with in situ electrical control characterizations. Review of Scientific Instruments, 2013, 84, 123904. | 1.3 | 2 |
| 40 | Study of the Band Alignment between Atomic-Layer-Deposited High- ϵ Dielectrics and MoS ₂ Film. ECS Journal of Solid State Science and Technology, 2018, 7, N46-N50. | 1.8 | 2 |
| 41 | Pulse-Mediated Electronic Tuning of the MoS ₂ "Perovskite Ferroelectric Field Effect Transistors. ACS Applied Electronic Materials, 2020, 2, 3843-3852. | 4.3 | 2 |
| 42 | 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 |
| 43 | 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 |
| 44 | 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 |
| 45 | Stray Field and Combined Effects on Device Miniaturization of the Magnetic Tunnel Junctions. Journal Physics D: Applied Physics, 0, , . | 2.8 | 1 |
| 46 | Interface imperfection effects on spin transfer torque switching: an atomistic approach. Journal Physics D: Applied Physics, 2022, 55, 215002. | 2.8 | 1 |
| 47 | Biological sensing using anomalous hall effect devices. Nanotechnology, 2022, 33, 335502. | 2.6 | 1 |
| 48 | 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 |