

Alain Pignolet

List of Publications by Year in descending order

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Version: 2024-02-01

56
papers

1,395
citations

346980

22
h-index

388640

36
g-index

57
all docs

57
docs citations

57
times ranked

2211
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Ambient fabrication of efficient triple cation perovskite-based near-infrared light-emitting diodes. <i>Optical Materials Express</i> , 2022, 12, 153. | 1.6 | 4 |
| 2 | All-Ambient-Processed CuSCN as an Inexpensive Alternative to Spiro-OMeTAD for Perovskite-Based Devices. <i>Energy Technology</i> , 2021, 9, . | 1.8 | 8 |
| 3 | Perovskite/Silicon Nanowire-Based Hybrid Heterojunctions for Fast and Broadband Photodetectors. <i>Physica Status Solidi - Rapid Research Letters</i> , 2021, 15, 2000537. | 1.2 | 9 |
| 4 | Ambient condition-processing strategy for improved air-stability and efficiency in mixed-cation perovskite solar cells. <i>Materials Advances</i> , 2020, 1, 1866-1876. | 2.6 | 20 |
| 5 | Four-fold multifunctional properties in self-organized layered ferrite. <i>Ceramics International</i> , 2020, 46, 28621-28630. | 2.3 | 0 |
| 6 | Tetragonal tungsten bronze/barium hexaferrite room-temperature multiferroic composite ceramics. <i>SN Applied Sciences</i> , 2020, 2, 1. | 1.5 | 2 |
| 7 | High performance photodetectors using porous silicon-TiO ₂ heterostructure. <i>Engineering Research Express</i> , 2020, 2, 035021. | 0.8 | 8 |
| 8 | Tunable thiocyanate-doped perovskite microstructure via water-ethanol additives for stable solar cells at ambient conditions. <i>Solar Energy Materials and Solar Cells</i> , 2019, 200, 110029. | 3.0 | 11 |
| 9 | Low-cost photodetector architectures fabricated at room-temperature using nano-engineered silicon wafer and sol-gel TiO ₂ based heterostructures. <i>Scientific Reports</i> , 2019, 9, 17994. | 1.6 | 11 |
| 10 | Highly Efficient and Ultrasensitive Large-Area Flexible Photodetector Based on Perovskite Nanowires. <i>Small</i> , 2019, 15, e1804150. | 5.2 | 81 |
| 11 | High-performance pseudo-halide perovskite nanowire networks for stable and fast-response photodetector. <i>Nano Energy</i> , 2018, 51, 324-332. | 8.2 | 53 |
| 12 | Hysteresis-Free 1D Network Mixed Halide Perovskite Semitransparent Solar Cells. <i>Small</i> , 2018, 14, e1802319. | 5.2 | 13 |
| 13 | Epitaxially stabilized thin films of λ -Fe ₂ O ₃ (001) grown on YSZ (100). <i>Scientific Reports</i> , 2017, 7, 3712. | 1.6 | 30 |
| 14 | Permittivity imaged at the nanoscale using tip-enhanced Raman spectroscopy. <i>Nanoscale Horizons</i> , 2017, 2, 365-369. | 4.1 | 6 |
| 15 | The effect of Al substitution on the structural and magnetic properties of epitaxial thin films of epsilon ferrite. <i>Scripta Materialia</i> , 2017, 140, 63-66. | 2.6 | 20 |
| 16 | Effect of the gold crystallinity on the enhanced luminescence signal of scanning probe tips in apertureless near-field optical microscopy. <i>Optics Express</i> , 2017, 25, 25929. | 1.7 | 7 |
| 17 | Hysteresis loops revisited: An efficient method to analyze ferroic materials. <i>Journal of Applied Physics</i> , 2016, 120, . | 1.1 | 13 |
| 18 | Chaotic memory. <i>Nature Physics</i> , 2014, 10, 9-11. | 6.5 | 1 |

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|----|---|------|-----------|
| 19 | Structural investigation of interface and defects in epitaxial Bi _{3.25} La _{0.75} Ti ₃ O ₁₂ film on SrRuO ₃ /SrTiO ₃ (111) and (100). Journal of Applied Physics, 2013, 113, 044102. | 1.1 | 2 |
| 20 | Optimization of Rare-earth Modified Iron Garnet Epitaxial Films for Magneto-Optic Applications. , 2012, , , | | 1 |
| 21 | Ferroelectric switching in Bi ₄ Ti ₃ O ₁₂ nanorods. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2012, 59, 1903-1911. | 1.7 | 12 |
| 22 | Ferroelectricity in Bi ₄ Ti ₃ O ₁₂ nanorods. , 2011, , . | | 0 |
| 23 | The structural origin of second harmonic generation in fascia. Biomedical Optics Express, 2011, 2, 26. | 1.5 | 43 |
| 24 | Epitaxial Patterning of Bi ₂ FeCrO ₆ Double Perovskite Nanostructures: Multiferroic at Room Temperature. Advanced Materials, 2011, 23, 1724-1729. | 11.1 | 66 |
| 25 | Strong Faraday rotation in Ce and Bi comodified epitaxial iron garnet films: Valence control through strain engineering. Applied Physics Letters, 2011, 99, . | 1.5 | 6 |
| 26 | Response to "Comment on "The role of Bi ³⁺ ions in magneto-optic Ce and Bi comodified epitaxial iron garnet films" [Appl. Phys. Lett. 99, 126101 (2011)]. Applied Physics Letters, 2011, 99, . | 1.5 | 0 |
| 27 | Noncontact atomic force microscopy imaging of ferroelectric domains with functionalized tips. Applied Physics Letters, 2011, 98, 162901. | 1.5 | 4 |
| 28 | Imaging, Core-Loss, and Low-Loss Electron-Energy-Loss Spectroscopy Mapping in Aberration-Corrected STEM. Microscopy and Microanalysis, 2010, 16, 416-424. | 0.2 | 36 |
| 29 | Nanoscale patterning of functional perovskite-type complex oxides by pulsed laser deposition through a nanostencil. Applied Surface Science, 2010, 256, 4777-4783. | 3.1 | 15 |
| 30 | The role of Bi ³⁺ ions in magneto-optic Ce and Bi comodified epitaxial iron garnet films. Applied Physics Letters, 2010, 97, . | 1.5 | 7 |
| 31 | Two-Dimensional Nanoscale Structural and Functional Imaging in Individual Collagen Type I Fibrils. Biophysical Journal, 2010, 98, 3070-3077. | 0.2 | 60 |
| 32 | Epitaxial thin films of the multiferroic double perovskite Bi ₂ FeCrO ₆ grown on (100)-oriented SrTiO ₃ substrates: Growth, characterization, and optimization. Journal of Applied Physics, 2009, 105, . | 1.1 | 68 |
| 33 | Piezoresponse force microscopy and magnetic force microscopy characterization of $\hat{\Gamma}^3$ -Fe ₂ O ₃ "BiFeO ₃ nanocomposite/Bi _{3.25} La _{0.75} Ti ₃ O ₁₂ multiferroic bilayers. Journal of Magnetism and Magnetic Materials, 2009, 321, 1799-1802. | 1.0 | 9 |
| 34 | Ferroelectric BaTiO ₃ Nanowires by a Topochemical Solid-State Reaction. Chemistry of Materials, 2009, 21, 5058-5065. | 3.2 | 67 |
| 35 | Strong enhancement of the Faraday rotation in Ce and Bi comodified epitaxial iron garnet thin films. Applied Physics Letters, 2009, 94, 181916. | 1.5 | 38 |
| 36 | Structural and multiferroic properties of epitaxial $\hat{\Gamma}^3$ -Fe ₂ O ₃ "BiFeO ₃ /Bi _{3.25} La _{0.75} Ti ₃ O ₁₂ bilayers. Journal Physics D: Applied Physics, 2008, 41, 112002. | 1.0 | 12 |

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|----|--|-----|-----------|
| 37 | Environmentally stable light emitting field effect transistors based on 2-(4-pentylstyryl)tetracene. Journal of Materials Chemistry, 2008, 18, 158-161. | 6.7 | 49 |
| 38 | Epitaxial thin films of multiferroic Bi ₂ FeCrO ₆ with <i>B</i> -site cationic order. Journal of Materials Research, 2007, 22, 2102-2110. | 1.2 | 39 |
| 39 | Enhanced magnetism in epitaxial BiFeO ₃ •BiCrO ₃ multiferroic heterostructures. Applied Physics Letters, 2007, 91, 222908. | 1.5 | 33 |
| 40 | Growth, structure, and properties of BiFeO ₃ /BiCrO ₃ films obtained by dual cross beam PLD. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2007, 54, 2645-2652. | 1.7 | 6 |
| 41 | Growth, structure, and properties of epitaxial thin films of first-principles predicted multiferroic Bi ₂ FeCrO ₆ . Applied Physics Letters, 2006, 89, 102902. | 1.5 | 94 |
| 42 | Higher-order electromechanical response of thin films by contact resonance piezoresponse force microscopy. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2006, 53, 2309-2322. | 1.7 | 36 |
| 43 | Complex oxide nanostructures by pulsed laser deposition through nanostencils. Applied Physics Letters, 2005, 86, 183107. | 1.5 | 60 |
| 44 | Local ferroelectric switching properties in BiFeO ₃ microstructures and their piezomagnetic response. Materials Research Society Symposia Proceedings, 2005, 902, 1. | 0.1 | 3 |
| 45 | Piezoresponse Scanning Force Microscopy: What Quantitative Information Can We Really Get Out of Piezoresponse Measurements on Ferroelectric Thin Films. Integrated Ferroelectrics, 2002, 44, 113-124. | 0.3 | 63 |
| 46 | Epitaxial growth of (103)-oriented ferroelectric SrBi ₂ Ta ₂ O ₉ thin films on Si(100). Applied Physics Letters, 2001, 78, 2922-2924. | 1.5 | 29 |
| 47 | Epitaxial growth of non-c-oriented ferroelectric SrBi ₂ Ta ₂ O ₉ thin films on SrTiO ₃ substrates. Journal of the European Ceramic Society, 2001, 21, 1565-1568. | 2.8 | 11 |
| 48 | Piezoresponse scanning force microscopy: What quantitative information can we really get out of piezoresponse measurements on ferroelectric thin films. Integrated Ferroelectrics, 2001, 38, 23-29. | 0.3 | 32 |
| 49 | Growth and characterization of non-c-axis-oriented SrBi ₂ Ta ₂ O ₉ epitaxial thin films on Si(100) substrates with SrRuO ₃ bottom electrodes. Integrated Ferroelectrics, 2001, 39, 73-80. | 0.3 | 4 |
| 50 | Epitaxial growth of ferroelectric SrBi ₂ Ta ₂ O ₉ thin films of mixed (100) and (116) orientation on SrLaGaO ₄ (110). Applied Physics Letters, 2001, 79, 2961-2963. | 1.5 | 20 |
| 51 | Growth and characterization of non-c-oriented epitaxial ferroelectric SrBi ₂ Ta ₂ O ₉ films on buffered Si(100). Applied Physics Letters, 2000, 77, 3260-3262. | 1.5 | 38 |
| 52 | Structural and electrical anisotropy of (001)-, (116)-, and (103)-oriented epitaxial SrBi ₂ Ta ₂ O ₉ thin films on SrTiO ₃ substrates grown by pulsed laser deposition. Journal of Applied Physics, 2000, 88, 6658-6664. | 1.1 | 84 |
| 53 | Epitaxial bismuth-layer-structured perovskite ferroelectric thin films grown by pulsed laser deposition. Integrated Ferroelectrics, 1999, 26, 21-29. | 0.3 | 9 |
| 54 | Epitaxial and large area PLD ferroelectric thin film heterostructures on silicon substrates. Integrated Ferroelectrics, 1998, 21, 485-498. | 0.3 | 22 |

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|----|--|-----|-----------|
| 55 | Pb(Zr,Ti)O ₃ -silicon heterostructures fabricated by direct wafer bonding. <i>Integrated Ferroelectrics</i> , 1998, 19, 95-109. | 0.3 | 6 |
| 56 | Large area pulsed laser deposition of aurivillius type layered perovskite thin films. <i>Ferroelectrics</i> , 1997, 202, 285-298. | 0.3 | 9 |