

# Bethany X Rutherford

## List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Metal-Free Oxide-Nitride Heterostructure as a Tunable Hyperbolic Metamaterial Platform. Nano Letters, 2020, 20, 6614-6622.	9.1	38
2	Strain-driven nanodumbbell structure and enhanced physical properties in hybrid vertically aligned nanocomposite thin films. Applied Materials Today, 2019, 16, 204-212.	4.3	30
3	Nitride-Oxide-Metal Heterostructure with Self-Assembled Core-Shell Nanopillar Arrays: Effect of Ordering on Magneto-Optical Properties. Small, 2021, 17, e2007222.	10.0	25
4	Tunable, room-temperature multiferroic Fe-BaTiO <sub>3</sub> vertically aligned nanocomposites with perpendicular magnetic anisotropy. Materials Today Nano, 2020, 11, 100083.	4.6	19
5	Au-Encapsulated Fe Nanorods in Oxide Matrix with Tunable Magneto-Optic Coupling Properties. ACS Applied Materials & Interfaces, 2020, 12, 51827-51836.	8.0	16
6	Tuning magnetic anisotropy in Co-BaZrO <sub>3</sub> vertically aligned nanocomposites for memory device integration. Nanoscale Advances, 2019, 1, 4450-4458.	4.6	15
7	Role of Defects and Power Dissipation on Ferroelectric Memristive Switching. Advanced Electronic Materials, 2022, 8, .	5.1	10
8	Tunable Three-Phase Co-CeO <sub>2</sub> -BaTiO <sub>3</sub> Hybrid Metamaterials with Nano-Mushroom-Like Structure for Tailorable Multifunctionalities. ACS Applied Nano Materials, 2022, 5, 6297-6304.	5.0	7
9	Strain Effects on the Growth of La <sub>0.7</sub> Sr <sub>0.3</sub> MnO <sub>3</sub> (LSMO)-NiO Nanocomposite Thin Films via Substrate Control. ACS Omega, 2020, 5, 23793-23798.	3.5	5
10	Tailorable multifunctionalities in ultrathin 2D Bi-based layered supercell structures. Nanoscale, 2021, 13, 16672-16679.	5.6	5
11	TiN-Fe Vertically Aligned Nanocomposites Integrated on Silicon as a Multifunctional Platform toward Device Applications. Crystals, 2022, 12, 849.	2.2	3