

Roman V Petrov

List of Publications by Year in descending order

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Version: 2024-02-01

34
papers

441
citations

840776

11
h-index

752698

20
g-index

35
all docs

35
docs citations

35
times ranked

387
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Magnetolectric Current Sensors. <i>Sensors</i> , 2017, 17, 1271. | 3.8 | 50 |
| 2 | Direct and inverse magnetolectric effect in layered composites in electromechanical resonance range: A review. <i>Journal of Magnetism and Magnetic Materials</i> , 2012, 324, 3548-3550. | 2.3 | 48 |
| 3 | Magnetolectric microwave phase shifters. <i>Ferroelectrics</i> , 1997, 204, 311-319. | 0.6 | 43 |
| 4 | Miniature antenna based on magnetolectric composites. <i>Electronics Letters</i> , 2008, 44, 506. | 1.0 | 38 |
| 5 | Antenna miniaturization with ferrite ferroelectric composites. <i>Microwave and Optical Technology Letters</i> , 2008, 50, 3154-3157. | 1.4 | 36 |
| 6 | Magnetolectric Magnetic Field Sensors: A Review. <i>Sensors</i> , 2021, 21, 6232. | 3.8 | 33 |
| 7 | Magnetolectric effect at thickness shear mode in ferrite-piezoelectric bilayer. <i>Applied Physics Letters</i> , 2013, 103, . | 3.3 | 32 |
| 8 | Controlling the Goos-Hänchen shift with external electric and magnetic fields in an electro-optic/magneto-electric heterostructure. <i>Journal of Applied Physics</i> , 2016, 119, . | 2.5 | 23 |
| 9 | Magnetolectric Composites. , 0, , . | | 22 |
| 10 | Controlling optical beam shifts upon reflection from a magneto-electric liquid-crystal-based system for applications to chemical vapor sensing. <i>Applied Physics B: Lasers and Optics</i> , 2017, 123, 1. | 2.2 | 16 |
| 11 | Magnetolectric Effect in the Bidomain Lithium Niobate/Nickel/Metglas Gradient Structure. <i>Physica Status Solidi (B): Basic Research</i> , 2020, 257, 1900398. | 1.5 | 12 |
| 12 | Self-Biased Bidomain LiNbO3/Ni/Metglas Magnetolectric Current Sensor. <i>Sensors</i> , 2020, 20, 7142. | 3.8 | 12 |
| 13 | Electromechanical Resonance in Magnetolectric Composites: Direct and Inverse Effect. <i>Solid State Phenomena</i> , 2012, 189, 129-143. | 0.3 | 11 |
| 14 | Modeling of dimensionally graded magnetolectric energy harvester. <i>Journal of Magnetism and Magnetic Materials</i> , 2015, 383, 246-249. | 2.3 | 9 |
| 15 | A slot antenna with magnetolectric elements. <i>Microwave and Optical Technology Letters</i> , 2013, 55, 533-535. | 1.4 | 7 |
| 16 | A Magnetolectric Automotive Crankshaft Position Sensor. <i>Sensors</i> , 2020, 20, 5494. | 3.8 | 7 |
| 17 | The crankshaft position sensor based on magnetolectric materials. , 2016, , . | | 6 |
| 18 | Bending Modes and Magnetolectric Effects in Asymmetric Ferromagnetic-Ferroelectric Structure. <i>Solid State Phenomena</i> , 0, 190, 281-284. | 0.3 | 5 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Current sensor based on magnetoelectric effect. , 2014, , . | | 5 |
| 20 | Influence of the linear magneto-electric effect on the lateral shift of light reflected from a magneto-electric film. Journal of Physics: Conference Series, 2016, 741, 012201. | 0.4 | 5 |
| 21 | Three-dimensional left-handed material lens. Applied Physics Letters, 2007, 91, . | 3.3 | 4 |
| 22 | A magnetic field controlled negative index microwave lens. Microwave and Optical Technology Letters, 2008, 50, 2804-2807. | 1.4 | 4 |
| 23 | Nomograph method for predicting magnetoelectric coupling. Journal of Magnetism and Magnetic Materials, 2016, 412, 1-6. | 2.3 | 4 |
| 24 | Magnetoelectric position sensors for automotive application. , 2017, , . | | 2 |
| 25 | Magnetic Field Tunable Electromechanical Resonance Properties of Magnetoelectric Bilayer. Solid State Phenomena, 0, 233-234, 349-352. | 0.3 | 1 |
| 26 | Loading characteristics of a spin-transfer nano-oscillator. Technical Physics Letters, 2017, 43, 305-308. | 0.7 | 1 |
| 27 | Bending modes of two-phase magnetoelectric structure. , 2014, , . | | 0 |
| 28 | Magnetoelectric Effect in Ferrite-Piezoelectric Dual-Phase Structure. Solid State Phenomena, 0, 233-234, 353-356. | 0.3 | 0 |
| 29 | Generation of microwave oscillations in a current-driven magnetic nanocontact with ferroelectric and multiferroic junction. , 2016, , . | | 0 |
| 30 | Modelling of multiferroic microwave patch antenna. , 2016, , . | | 0 |
| 31 | Electric and magnetic tuning of the Goos-Hänchen shift of a light beam upon reection from a magneto-electric heterostructure. , 2016, , . | | 0 |
| 32 | Voltage-Tunable vapour detector using optical beam shifts in a magneto-electric multilayered structure. , 2017, , . | | 0 |
| 33 | Crankshaft position magnetoelectric sensor for controller area network bus. , 2019, , . | | 0 |
| 34 | Modeling and Development of Position Sensors Based on Multiferroic Layered Structures. , 2020, , . | | 0 |