Roman V Petrov

List of Publications by Year
in descending order

34	441	840776 11	752698 20
papers	citations	h-index	g-index

35	35	35	387
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Magnetoelectric Magnetic Field Sensors: A Review. Sensors, 2021, 21, 6232.	3.8	33
2	Magnetoelectric Effect in the Bidomain Lithium Niobate/Nickel/Metglas Gradient Structure. Physica Status Solidi (B): Basic Research, 2020, 257, 1900398.	1.5	12
3	A Magnetoelectric Automotive Crankshaft Position Sensor. Sensors, 2020, 20, 5494.	3.8	7
4	Modeling and Development of Position Sensors Based on Multiferroic Layered Structures. , 2020, , .		0
5	Self-Biased Bidomain LiNbO3/Ni/Metglas Magnetoelectric Current Sensor. Sensors, 2020, 20, 7142.	3.8	12
6	Crankshaft position magnetoelectric sensor for controller area network bus. , 2019, , .		0
7	Loading characteristics of a spin-transfer nano-oscillator. Technical Physics Letters, 2017, 43, 305-308.	0.7	1
8	Controlling optical beam shifts upon reflection from a magneto-electric liquid-crystal-based system for applications to chemical vapor sensing. Applied Physics B: Lasers and Optics, 2017, 123, 1.	2.2	16
9	Magnetoelectric position sensors for automotive application. , 2017, , .		2
10	Magnetoelectric Current Sensors. Sensors, 2017, 17, 1271.	3.8	50
11	Voltage-Tunable vapour detector using optical beam shifts in a magneto-electric multilayered structure. , 2017, , .		0
12	The crankshaft position sensor based on magnetoelectric materials. , 2016, , .		6
13	Generation of microwave oscillations in a current-driven magnetic nanocontact with ferroelectric and multiferroic junction. , 2016, , .		0
14	Modelling of multiferroic microwave patch antenna. , 2016, , .		0
15	Controlling the Goos-HÃnchen shift with external electric and magnetic fields in an electro-optic/magneto-electric heterostructure. Journal of Applied Physics, 2016, 119, .	2.5	23
16	Electric and magnetic tuning of the Goos-HÃnchen shift of a light beam upon reection from a magneto-electric heterostructure. , 2016, , .		0
17	Nomograph method for predicting magnetoelectric coupling. Journal of Magnetism and Magnetic Materials, 2016, 412, 1-6.	2.3	4
18	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

#	Article	IF	Citations
19	Modeling of dimensionally graded magnetoelectric energy harvester. Journal of Magnetism and Magnetic Materials, 2015, 383, 246-249.	2.3	9
20	Bending modes of two-phase magnetoelectric structure. , 2014, , .		0
21	Current sensor based on magnetoelectric effect. , 2014, , .		5
22	Magnetoelectric effect at thickness shear mode in ferrite-piezoelectric bilayer. Applied Physics Letters, 2013, 103, .	3.3	32
23	A slot antenna with magnetoelectric elements. Microwave and Optical Technology Letters, 2013, 55, 533-535.	1.4	7
24	Direct and inverse magnetoelectric effect in layered composites in electromechanical resonance range: A review. Journal of Magnetism and Magnetic Materials, 2012, 324, 3548-3550.	2.3	48
25	Electromechanical Resonance in Magnetoelectric Composites: Direct and Inverse Effect. Solid State Phenomena, 2012, 189, 129-143.	0.3	11
26	A magnetic field controlled negativeâ€index microwave lens. Microwave and Optical Technology Letters, 2008, 50, 2804-2807.	1.4	4
27	Antenna miniaturization with ferrite ferroelectric composites. Microwave and Optical Technology Letters, 2008, 50, 3154-3157.	1.4	36
28	Miniature antenna based on magnetoelectric composites. Electronics Letters, 2008, 44, 506.	1.0	38
29	Three-dimensional left-handed material lens. Applied Physics Letters, 2007, 91, .	3.3	4
30	Magnetoelectric microwave phase shifters. Ferroelectrics, 1997, 204, 311-319.	0.6	43
31	Bending Modes and Magnetoelectric Effects in Asymmetric Ferromagnetic-Ferroelectric Structure. Solid State Phenomena, 0, 190, 281-284.	0.3	5
32	Magnetic Field Tunable Electromechanical Resonance Properties of Magnetoelectric Bilayer. Solid State Phenomena, 0, 233-234, 349-352.	0.3	1
33	Magnetoelectric Effect in Ferrite-Piezoelectric Dual-Phase Structure. Solid State Phenomena, 0, 233-234, 353-356.	0.3	0
34	Magnetoelectric Composites. , 0, , .		22