

Arsen Babajanyan

List of Publications by Year in descending order

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papers

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567281

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25
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59
all docs

59
docs citations

59
times ranked

682
citing authors

#	ARTICLE	IF	CITATIONS
1	Microwave dielectric resonator biosensor for aqueous glucose solution. Review of Scientific Instruments, 2008, 79, 086107.	1.3	116
2	Noninvasive in vitro measurement of pig-blood d-glucose by using a microwave cavity sensor. Diabetes Research and Clinical Practice, 2012, 96, 379-384.	2.8	52
3	Sodium chloride sensing by using a near-field microwave microprobe. Applied Physics Letters, 2006, 89, 183504.	3.3	42
4	Non-invasive in vitro sensing of d-glucose in pig blood. Medical Engineering and Physics, 2012, 34, 299-304.	1.7	34
5	Glucose aqueous solution sensing by a near-field microwave microprobe. Sensors and Actuators A: Physical, 2008, 148, 28-32.	4.1	33
6	Magneto-optical imaging using a garnet indicator film prepared on glass substrates. Journal of Magnetism and Magnetic Materials, 2010, 322, 2722-2727.	2.3	30
7	Noncontact characterization of glucose by a waveguide microwave probe. Current Applied Physics, 2009, 9, 856-860.	2.4	26
8	Preparation of bismuth substituted yttrium iron garnet powder and thin film by the metal-organic decomposition method. Journal of Crystal Growth, 2011, 329, 27-32.	1.5	26
9	Effects of thermal preparation on Copper Phthalocyanine organic light emitting diodes. Journal of Luminescence, 2016, 171, 149-153.	3.1	24
10	Real-Time Noninvasive Measurement of Glucose Concentration Using a Modified Hilbert Shaped Microwave Sensor. Sensors, 2019, 19, 5525.	3.8	24
11	Direct imaging of photoconductivity of solar cells by using a near-field scanning microwave microprobe. Journal of Applied Physics, 2009, 106, .	2.5	22
12	Magneto-optical visualization by Bi:YIG thin films prepared at low temperatures. Journal of Applied Physics, 2015, 117, .	2.5	20
13	Hard disk magnetic domain nano-spatial resolution imaging by using a near-field scanning microwave microscope with an AFM probe tip. Journal of Magnetism and Magnetic Materials, 2009, 321, 2483-2487.	2.3	18
14	Effect of pre-crystallization on the preparation of thick Bi-YIG films by the metal-organic decomposition method. Journal of Magnetism and Magnetic Materials, 2014, 366, 24-27.	2.3	17
15	Direct current imaging using a magneto-optical sensor. Sensors and Actuators A: Physical, 2016, 238, 397-401.	4.1	17
16	Investigation of space charge at pentacene/metal interfaces by a near-field scanning microwave microprobe. Applied Physics Letters, 2007, 90, 182104.	3.3	15
17	A three-dimensional finite element model of near-field scanning microwave microscopy. Journal of Applied Physics, 2012, 112, .	2.5	15
18	Proteorhodopsin characterization based on metal-insulator-metal structure technique. Thin Solid Films, 2011, 519, 3425-3429.	1.8	13

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19	InÂvitro monitoring of goat-blood glycemia with a microwave biosensor. <i>Current Applied Physics</i> , 2014, 14, 563-569.	2.4	13
20	Characterization of anisotropic electrical conductivity of carbon fiber composite materials by a microwave probe pumping technique. <i>Journal of Composite Materials</i> , 2016, 50, 1999-2004.	2.4	13
21	Characterization of rubrene polycrystalline thin film transistors fabricated using various heat-treatment conditions. <i>Thin Solid Films</i> , 2011, 519, 5562-5566.	1.8	11
22	Label-free DNA microarray bioassays using a near-field scanning microwavemicroscope. <i>Biosensors and Bioelectronics</i> , 2013, 42, 326-331.	10.1	11
23	Investigation of photoconductivity of silicon solar cells by a near-field scanning microwave microscope. <i>Ultramicroscopy</i> , 2009, 109, 958-962.	1.9	8
24	Visualization of microwave near-field distribution in sodium chloride and glucose aqueous solutions by a thermo-elastic optical indicator microscope. <i>Scientific Reports</i> , 2021, 11, 2589.	3.3	8
25	Near-Field Microwave Microscopy for Nanoscience and Nanotechnology. <i>Nanoscience and Technology</i> , 2011, , 135-171.	1.5	8
26	Anisotropic electric properties of Copper-(II)-Phthalocyanine thin films characterized by a near-field microwave microscope. <i>Current Applied Physics</i> , 2011, 11, 166-170.	2.4	7
27	Analytic description of microcylindrical cavity for surface plasmon polariton. <i>Optics Communications</i> , 2013, 305, 190-193.	2.1	7
28	Characterization of magnetic materials using a scanning microwave microprobe. <i>Ultramicroscopy</i> , 2008, 108, 1030-1033.	1.9	6
29	Investigation of space charge at pentacene/Au interface with UV/ozone treatment by a near-field microwave microprobe. <i>Thin Solid Films</i> , 2008, 516, 2573-2576.	1.8	6
30	Visualization of magnetic domains by near-field scanning microwave microscope. <i>Ultramicroscopy</i> , 2009, 109, 889-893.	1.9	6
31	Detection of DNA-Hybridization Using a Near-Field Scanning Microwave Microscope. <i>Journal of Nanoscience and Nanotechnology</i> , 2011, 11, 4222-4226.	0.9	6
32	Ring-type V-groove surface plasmon microresonator: The modal structure and Q-factor. <i>Journal of Applied Physics</i> , 2012, 111, 053112.	2.5	6
33	Direct imaging of conductivity in pentacene field-effect transistors by a near-field scanning microwave microprobe. <i>Organic Electronics</i> , 2011, 12, 263-268.	2.6	5
34	A Surface Plasmon Microcavity Between the Toroidal and Flat Metallic Surfaces. <i>Plasmonics</i> , 2012, 7, 1-5.	3.4	4
35	Influence of bismuth substitution on yttrium orthoferrite thin films preparation by the MOD method. <i>Journal of Magnetism and Magnetic Materials</i> , 2016, 397, 310-314.	2.3	4
36	Antenna Investigation by a Thermoelastic Optical Indicator Microscope: Defects Measurement and 3D Visualization of Electromagnetic Fields. <i>IEEE Antennas and Propagation Magazine</i> , 2019, 61, 27-31.	1.4	4

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37	Characterization of Alq3 thin films by a near-field microwave microprobe. Ultramicroscopy, 2008, 108, 1058-1061.	1.9	3
38	The Periodically Graded Metal-Insulator-Metal Gap Structure for Plasmonic Waveguides. Plasmonics, 2013, 8, 613-618.	3.4	3
39	Visualization of photogeneration transport characteristics of a pentacene thin-film transistor at selected wavelengths. Thin Solid Films, 2013, 534, 503-507.	1.8	3
40	Direct imaging of the SSD and USB memory drives heating by thermo-elastic optical indicator microscopy. Case Studies in Thermal Engineering, 2017, 10, 407-412.	5.7	3
41	Investigation of the Photovoltaic Effect in Solar Cells by Using a Near-field Microwave Microscope. Journal of the Korean Physical Society, 2009, 55, 154-157.	0.7	3
42	Characterization of self-assembled monolayers by using a near-field microwave scanning microprobe. Thin Solid Films, 2009, 517, 5597-5600.	1.8	2
43	Characterization of the field-effect conductivity distribution in pentacene thin-film transistors by a near-field scanning microwave microscope. Synthetic Metals, 2011, 161, 931-936.	3.9	2
44	Detecting defects in sub-skin-depth metallic layers by a thermo-elastic sensor. , 2017, , .		2
45	Microwave Heating Visualization for Carbon Fibers Composite Material: Development of Tunable Microstrip Structures. IEEE Transactions on Microwave Theory and Techniques, 2018, 66, 883-888.	4.6	2
46	Sensing of Glucose Concentration by Using a Surface Plasmon Polariton. Journal of the Korean Physical Society, 2008, 52, 440-443.	0.7	2
47	3D visualization of microwave electric and magnetic fields by using a metasurface-based indicator. Scientific Reports, 2022, 12, 6150.	3.3	2
48	Investigation of CdS thin films by a near-field microwave microprobe. Ultramicroscopy, 2008, 108, 1062-1065.	1.9	1
49	Characterization of magnetoresistance hysteresis of Permalloy thin-film using near-field microwave microscope. Thin Solid Films, 2010, 519, 399-403.	1.8	1
50	Thermal distribution in unidirectional carbon composite material due to the direct heating and microwave influence visualized by a thermo-elastic optical indicator microscope. Measurement: Journal of the International Measurement Confederation, 2020, 151, 107189.	5.0	1
51	GLUCOSE BIOSENSING BY USING A MICROWAVE DIELECTRIC RESONATOR. , 2008, , .		1
52	Microwave response phase control of a graphite microstrip. Carbon, 2022, 193, 151-156.	10.3	1
53	Activity of surface plasmon in the ring-like microcavities. , 1899, , .		0
54	Application of a sensitive near-field microwave microprobe to the nondestructive characterization of microbial rhodopsin. Journal of Biophotonics, 2013, 6, 163-170.	2.3	0

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55	Characteristics of light transfer in the connected conical waveguides with the same symmetry axis. Applied Optics, 2016, 55, 3854.	2.1	0
56	Investigation of CdS Films Prepared by Using Chemical Bath Deposition. Journal of the Korean Physical Society, 2008, 53, 680-684.	0.7	0
57	CHARACTERIZATION OF SELF-ASSEMBLED MONOLAYERS BY USING A NEAR-FIELD MICROWAVE MICROPROBE. , 2008, , .		0
58	Direct Nano-spatial Magnetic Domain Imaging with aNear-field Scanning Microwave Microscope Incorporating an AFMCantilever Probe. Journal of the Korean Physical Society, 2009, 55, 158-161.	0.7	0
59	Performance of Pentacene-based Thin-film Transistors Fabricated at Different Deposition Rates. New Physics: Sae Mulli, 2018, 68, 1192-1195.	0.1	0