

# Arsen Babajanyan

## List of Publications by Year in descending order

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Version: 2024-02-01

59  
papers

709  
citations

567281

15  
h-index

580821

25  
g-index

59  
all docs

59  
docs citations

59  
times ranked

682  
citing authors

| #  | ARTICLE   | IF   | CITATIONS |
|----|---|------|-----------|
| 1  | Microwave response phase control of a graphite microstrip. Carbon, 2022, 193, 151-156.  | 10.3 | 1         |
| 2  | 3D visualization of microwave electric and magnetic fields by using a metasurface-based indicator. Scientific Reports, 2022, 12, 6150.  | 3.3  | 2         |
| 3  | Visualization of microwave near-field distribution in sodium chloride and glucose aqueous solutions by a thermo-elastic optical indicator microscope. Scientific Reports, 2021, 11, 2589.   | 3.3  | 8         |
| 4  | 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         |
| 5  | Antenna Investigation by a Thermoelastic Optical Indicator Microscope: Defects Measurement and 3D Visualization of Electromagnetic Fields. IEEE Antennas and Propagation Magazine, 2019, 61, 27-31.   | 1.4  | 4         |
| 6  | Real-Time Noninvasive Measurement of Glucose Concentration Using a Modified Hilbert Shaped Microwave Sensor. Sensors, 2019, 19, 5525.   | 3.8  | 24        |
| 7  | 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         |
| 8  | Performance of Pentacene-based Thin-film Transistors Fabricated at Different Deposition Rates. New Physics: Sae Mulli, 2018, 68, 1192-1195.   | 0.1  | 0         |
| 9  | 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         |
| 10 | Detecting defects in sub-skin-depth metallic layers by a thermo-elastic sensor. , 2017, , .   |      | 2         |
| 11 | Characteristics of light transfer in the connected conical waveguides with the same symmetry axis. Applied Optics, 2016, 55, 3854.  | 2.1  | 0         |
| 12 | Effects of thermal preparation on Copper Phthalocyanine organic light emitting diodes. Journal of Luminescence, 2016, 171, 149-153.   | 3.1  | 24        |
| 13 | Direct current imaging using a magneto-optical sensor. Sensors and Actuators A: Physical, 2016, 238, 397-401.   | 4.1  | 17        |
| 14 | Characterization of anisotropic electrical conductivity of carbon fiber composite materials by a microwave probe pumping technique. Journal of Composite Materials, 2016, 50, 1999-2004.  | 2.4  | 13        |
| 15 | Influence of bismuth substitution on yttrium orthoferrite thin films preparation by the MOD method. Journal of Magnetism and Magnetic Materials, 2016, 397, 310-314.  | 2.3  | 4         |
| 16 | Magneto-optical visualization by Bi:YIG thin films prepared at low temperatures. Journal of Applied Physics, 2015, 117, .   | 2.5  | 20        |
| 17 | InÂvitro monitoring of goat-blood glycemia with a microwave biosensor. Current Applied Physics, 2014, 14, 563-569.  | 2.4  | 13        |
| 18 | Effect of pre-crystallization on the preparation of thick Bi-YIG films by the metalâ€‘organic decomposition method. Journal of Magnetism and Magnetic Materials, 2014, 366, 24-27.  | 2.3  | 17        |

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|----|--|------|-----------|
| 19 | Application of a sensitive near-field microwave microprobe to the nondestructive characterization of microbial rhodopsin. <i>Journal of Biophotonics</i> , 2013, 6, 163-170.                   | 2.3  | 0         |
| 20 | The Periodically Graded Metal-Insulator-Metal Gap Structure for Plasmonic Waveguides. <i>Plasmonics</i> , 2013, 8, 613-618.  | 3.4  | 3         |
| 21 | Analytic description of microcylindrical cavity for surface plasmon polariton. <i>Optics Communications</i> , 2013, 305, 190-193.  | 2.1  | 7         |
| 22 | Visualization of photogeneration transport characteristics of a pentacene thin-film transistor at selected wavelengths. <i>Thin Solid Films</i> , 2013, 534, 503-507.                          | 1.8  | 3         |
| 23 | Label-free DNA microarray bioassays using a near-field scanning microwave microscope. <i>Biosensors and Bioelectronics</i> , 2013, 42, 326-331.  | 10.1 | 11        |
| 24 | 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         |
| 25 | Noninvasive in vitro measurement of pig-blood d-glucose by using a microwave cavity sensor. <i>Diabetes Research and Clinical Practice</i> , 2012, 96, 379-384.                                | 2.8  | 52        |
| 26 | A three-dimensional finite element model of near-field scanning microwave microscopy. <i>Journal of Applied Physics</i> , 2012, 112, .   | 2.5  | 15        |
| 27 | A Surface Plasmon Microcavity Between the Toroidal and Flat Metallic Surfaces. <i>Plasmonics</i> , 2012, 7, 1-5.   | 3.4  | 4         |
| 28 | Non-invasive in vitro sensing of d-glucose in pig blood. <i>Medical Engineering and Physics</i> , 2012, 34, 299-304.   | 1.7  | 34        |
| 29 | Characterization of the field-effect conductivity distribution in pentacene thin-film transistors by a near-field scanning microwave microscope. <i>Synthetic Metals</i> , 2011, 161, 931-936. | 3.9  | 2         |
| 30 | 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         |
| 31 | 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         |
| 32 | 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         |
| 33 | Preparation of bismuth substituted yttrium iron garnet powder and thin film by the metal-organic decomposition method. <i>Journal of Crystal Growth</i> , 2011, 329, 27-32.                    | 1.5  | 26        |
| 34 | Proteorhodopsin characterization based on metal-insulator-metal structure technique. <i>Thin Solid Films</i> , 2011, 519, 3425-3429.   | 1.8  | 13        |
| 35 | 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        |
| 36 | Near-Field Microwave Microscopy for Nanoscience and Nanotechnology. <i>Nanoscience and Technology</i> , 2011, , 135-171.   | 1.5  | 8         |

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|----|---|-----|-----------|
| 37 | 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        |
| 38 | Characterization of magnetoresistance hysteresis of Permalloy thin-film using near-field microwave microscope. Thin Solid Films, 2010, 519, 399-403.  | 1.8 | 1         |
| 39 | Direct imaging of photoconductivity of solar cells by using a near-field scanning microwave microprobe. Journal of Applied Physics, 2009, 106, .  | 2.5 | 22        |
| 40 | Noncontact characterization of glucose by a waveguide microwave probe. Current Applied Physics, 2009, 9, 856-860.   | 2.4 | 26        |
| 41 | Characterization of self-assembled monolayers by using a near-field microwave scanning microprobe. Thin Solid Films, 2009, 517, 5597-5600.  | 1.8 | 2         |
| 42 | Visualization of magnetic domains by near-field scanning microwave microscope. Ultramicroscopy, 2009, 109, 889-893.   | 1.9 | 6         |
| 43 | Investigation of photoconductivity of silicon solar cells by a near-field scanning microwave microscope. Ultramicroscopy, 2009, 109, 958-962.   | 1.9 | 8         |
| 44 | 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        |
| 45 | 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         |
| 46 | Direct Nano-spatial Magnetic Domain Imaging with a Near-field Scanning Microwave Microscope Incorporating an AFM Cantilever Probe. Journal of the Korean Physical Society, 2009, 55, 158-161.           | 0.7 | 0         |
| 47 | Glucose aqueous solution sensing by a near-field microwave microprobe. Sensors and Actuators A: Physical, 2008, 148, 28-32.   | 4.1 | 33        |
| 48 | Characterization of magnetic materials using a scanning microwave microprobe. Ultramicroscopy, 2008, 108, 1030-1033.  | 1.9 | 6         |
| 49 | Characterization of Alq3 thin films by a near-field microwave microprobe. Ultramicroscopy, 2008, 108, 1058-1061.  | 1.9 | 3         |
| 50 | Investigation of CdS thin films by a near-field microwave microprobe. Ultramicroscopy, 2008, 108, 1062-1065.  | 1.9 | 1         |
| 51 | Investigation of space charge at pentacene/Au interface with UV/ozone treatment by a near-field microwave microprobe. Thin Solid Films, 2008, 516, 2573-2576.   | 1.8 | 6         |
| 52 | Microwave dielectric resonator biosensor for aqueous glucose solution. Review of Scientific Instruments, 2008, 79, 086107.  | 1.3 | 116       |
| 53 | Sensing of Glucose Concentration by Using a Surface Plasmon Polariton. Journal of the Korean Physical Society, 2008, 52, 440-443.   | 0.7 | 2         |
| 54 | Investigation of CdS Films Prepared by Using Chemical Bath Deposition. Journal of the Korean Physical Society, 2008, 53, 680-684.   | 0.7 | 0         |

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|----|---|-----|-----------|
| 55 | CHARACTERIZATION OF SELF-ASSEMBLED MONOLAYERS BY USING A NEAR-FIELD MICROWAVE MICROPROBE. , 2008, , .   |     | 0         |
| 56 | GLUCOSE BIOSENSING BY USING A MICROWAVE DIELECTRIC RESONATOR. , 2008, , .   |     | 1         |
| 57 | Investigation of space charge at pentacene/metal interfaces by a near-field scanning microwave microprobe. Applied Physics Letters, 2007, 90, 182104. | 3.3 | 15        |
| 58 | Sodium chloride sensing by using a near-field microwave microprobe. Applied Physics Letters, 2006, 89, 183504.  | 3.3 | 42        |
| 59 | Activity of surface plasmon in the ring-like microcavities. , 1899, , .   |     | 0         |