

Amir Abramovich

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Real-Time Metasurface Sensor for Monitoring Micropoisons in Aqueous Solutions Based on Gold Nanoparticles and Terahertz Spectroscopy. <i>Sensors</i> , 2022, 22, 1279.	2.1	6
2	Steer by Image Technology for Intelligent Reflecting Surface Based on Reconfigurable Metasurface with Photodiodes as Tunable Elements. <i>Crystals</i> , 2022, 12, 951.	1.0	1
3	Performance Enhancement of Reconfigurable Metamaterial Reflector Antenna by Decreasing the Absorption of the Reflected Beam. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 8999.	1.3	7
4	Ultra-Wideband Reconfigurable X-Band and Ku-Band Metasurface Beam-Steerable Reflector for Satellite Communications. <i>Electronics (Switzerland)</i> , 2021, 10, 2165.	1.8	13
5	Realization and validation of continuous tunable metasurface for high resolution beam steering reflector at Ka-band frequency. <i>International Journal of RF and Microwave Computer-Aided Engineering</i> , 2021, 31, e22559.	0.8	12
6	Performance Enhancement of Inexpensive Glow Discharge Detector Operating in Up-Conversion Mode in Millimeter Wave Detection for Focal Plane Arrays. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 9564.	1.3	0
7	Polarization consideration of 2-D beam-steering metasurface reflector at Ka-band for wireless communication. , 2021, , .		1
8	QPSK MMW Wireless Communication System Based On p-i-n InGaAs Photomixer. <i>Electronics (Switzerland)</i> , 2020, 9, 1182.	1.8	3
9	Innovative Reconfigurable Metasurface 2-D Beam-Steerable Reflector for 5G Wireless Communication. <i>Electronics (Switzerland)</i> , 2020, 9, 1191.	1.8	15
10	QPSK detection using glow discharge detector and a photodiode for millimeter-wave and terahertz communication. <i>Microwave and Optical Technology Letters</i> , 2020, 62, 2674-2682.	0.9	2
11	Inexpensive Millimeter-Wave Communication Channel Using Glow Discharge Detector and Satellite Dish Antenna. <i>Electronics (Switzerland)</i> , 2020, 9, 677.	1.8	3
12	Robust, Sensitive, and Inexpensive 2D Focal Plane Array Upconverting MMW Imaging Into the Visible. <i>IEEE Photonics Technology Letters</i> , 2019, 31, 747-750.	1.3	3
13	Wideband reconfigurable entire Ku-band metasurface beam-steerable reflector for satellite communications. <i>IET Microwaves, Antennas and Propagation</i> , 2019, 13, 334-339.	0.7	11
14	MMW coherence detection for 5th generation of cellular communication. , 2019, , .		0
15	Up-conversion MMW imaging system based on Glow Discharge Detector row attached to commercial contact image sensor. , 2019, , .		0
16	Ultra-wideband and inexpensive glow discharge detector for millimeter-wave wireless communication based on upconversion to visual light. <i>Applied Optics</i> , 2019, 58, F26.	0.9	3
17	Real-time advanced spectroscopic monitoring of Ammonia concentration in water. <i>Aquacultural Engineering</i> , 2018, 83, 103-108.	1.4	4
18	Ultrafast, sensitive, and inexpensive 3 dimensional MMW/THz imaging system using Glow Discharge Detector Array and CCD camera based on upconversion to visual band. , 2018, , .		0

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19	Inexpensive and simple MMW imaging using optical detection of light emitted from glow discharge detectors. , 2018, , .		1
20	Awake endoscopic (esophageal) ultrasound using the endobronchial scope (EUS-B) for patients with high risk for sedation. , 2018, , .		0
21	Effects of ion irradiation damage on the initial interactions of oxygen with polycrystalline gadolinium. Solid State Ionics, 2017, 309, 130-136.	1.3	0
22	Relaxation spectra of polymers and phenomena of electrical and hydrophobic recovery: Interplay between bulk and surface properties of polymers. Journal of Polymer Science, Part B: Polymer Physics, 2017, 55, 198-205.	2.4	13
23	Flat mirror for millimeter-wave and terahertz imaging systems using an inexpensive metasurface. Chinese Optics Letters, 2017, 15, 011101-11105.	1.3	8
24	MMW/THz imaging using upconversion to visible, based on glow discharge detector array and CCD camera. , 2017, , .		1
25	Detection and upconversion of three-dimensional MMW/THz images to the visible. Photonics Research, 2016, 4, 306.	3.4	19
26	Tissue repair genes: the TiRe database and its implication for skin wound healing. Oncotarget, 2016, 7, 21145-21155.	0.8	20
27	Terahertz Frequency Modulated Continuous Wave Radar using Glow Discharge Detector. IEEE Sensors Journal, 2016, , 1-1.	2.4	10
28	Up-conversion of MMW radiation to visual band using glow discharge detector and silicon detector. , 2016, , .		0
29	Perfect absorber metamaterial for real time detection and recognition of micro-poisons in aqueous solutions and atmosphere using millimeter wavelength spectroscopy. Proceedings of SPIE, 2016, , .	0.8	0
30	A Phase Ib/II Study Evaluating the Combination of Weekly Docetaxel and Cisplatin Together with Capecitabine and Bevacizumab in Patients with Advanced Esophago-Gastric Cancer. PLoS ONE, 2016, 11, e0157548.	1.1	5
31	Switching and Fast Operation of Glow Discharge Detector for Millimeter Wave Focal Plane Array Imaging Systems. IEEE Sensors Journal, 2015, 15, 6659-6663.	2.4	9
32	THz Upconversion imaging system, based on 1.55 Åµm coherent electro-optical sampling method using GaAs crystal. , 2015, , .		0
33	Real time detection and recognition of micro-poisons in aqueous solutions and atmosphere using perfect absorber metamaterial in millimeter wavelength regime. , 2015, , .		5
34	Feasibility of Radon projection acquisition for compressive imaging in MMW region based new video rate 16Å–16 GDD FPA camera. , 2015, , .		0
35	Millimetre wavelength variable focusing antenna for power beaming and active denial systems. IET Microwaves, Antennas and Propagation, 2015, 9, 1167-1172.	0.7	2
36	Metal Nano Layer Coating for Improving the Detection and Recognition of Micro-Poisons Using Reflection Spectroscopic Measurement. Optics and Photonics Journal, 2015, 05, 193-199.	0.3	3

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37	Capability of long distance 100 GHz FMCW using a single GDD lamp sensor. Applied Optics, 2014, 53, 85249.	2.4	3
38	Calibration Method for MMW Imaging Using Inexpensive Miniature Neon Indicator Lamp Detectors. IEEE Sensors Journal, 2014, 14, 1677-1681.	2.4	8
39	Detection of hidden objects using a real-time 3-D millimeter-wave imaging system. Proceedings of SPIE, 2014, , .	0.8	0
40	Real time three-dimensional space video rate sensors for millimeter waves imaging based very inexpensive plasma LED lamps. Proceedings of SPIE, 2014, , .	0.8	0
41	Polarization effects on heterodyne detection and imaging using Glow Discharge Detector at millimeter wavelengths. Proceedings of SPIE, 2014, , .	0.8	2
42	Fourier imaging and distance approximation using time of flight method for terahertz wave imaging. Optical Engineering, 2014, 53, 083104.	0.5	0
43	Large distance 3D imaging of hidden objects. Proceedings of SPIE, 2014, , .	0.8	0
44	Real-time 3D millimeter wave imaging based FMCW using GGD focal plane array as detectors. , 2014, , .		2
45	Oversampling advances in millimeter-wave scan imaging using inexpensive neon indicator lamp detectors. Optical Engineering, 2013, 52, 063202.	0.5	8
46	Heterodyne detection at 300 GHz using glow discharge detectors with efficient quasi-optical design. Proceedings of SPIE, 2013, , .	0.8	0
47	Millimeter wavelength imaging system based on Flat Parabolic Surface. , 2013, , .		0
48	Heterodyne detection and polarization effects at 300 GHz using Ne indicator lamp glow discharge detectors. , 2013, , .		0
49	W-Band Chirp Radar Mock-Up Using a Glow Discharge Detector. IEEE Sensors Journal, 2013, 13, 139-145.	2.4	25
50	The interaction of H ₂ O with the surface of polycrystalline gadolinium at the temperature range of 300-570K. Surface Science, 2013, 617, 29-35.	0.8	7
51	Heterodyne detection at 300 GHz using neon indicator lamp glow discharge detector. Applied Optics, 2013, 52, 4077.	0.9	23
52	3D Millimeter Wave imaging system using chirp radar and Glow Discharge Detector pixel. , 2013, , .		0
53	Performance quantification of a millimeter-wavelength imaging system based on inexpensive glow-discharge-detector focal-plane array. Applied Optics, 2013, 52, C43.	0.9	16
54	Prehospital intubation success rates among Israel Defense Forces providers. Journal of Trauma and Acute Care Surgery, 2013, 75, S178-S183.	1.1	26

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55	Relatively inexpensive real time active millimeter wave and terahertz imaging systems. , 2013, , .		0
56	Down-conversion detection in 300 GHz radiation using Glow Discharge Detector (GDD). Proceedings of SPIE, 2012, , .	0.8	0
57	Sub-wavelength resolution of MMW imaging systems using extremely inexpensive scanning Glow Discharge Detector (GDD) double row camera. , 2012, , .		1
58	High resolution reflection measurements of dielectrics in W-band (92–100 GHz). , 2011, , .		1
59	The TeraMOS sensor for monolithic passive THz imagers. , 2011, , .		15
60	High resolution remote sensing of particles and aerosols in the W-band (92–100 GHz). , 2011, , .		0
61	Super resolution and optical properties of THz double row array based on inexpensive Glow Discharge Detector (GDD) pixels. Proceedings of SPIE, 2011, , .	0.8	5
62	Low-cost THz heterodyne detection by miniature neon indicator lamp glow discharge detector. , 2011, , .		0
63	Measurements and simulations of the optical parameters of the Glow Discharge Detector (GDD) Focal Plane Array (FPA) millimeter wavelength imaging system. , 2011, , .		0
64	Inexpensive THz Focal Plane Array Imaging Using Miniature Neon Indicator Lamps as Detectors. IEEE Sensors Journal, 2011, 11, 1962-1968.	2.4	41
65	mm wave and THz imaging using very inexpensive neon-indicator lamp detector focal-plane arrays. , 2011, , .		3
66	Heterodyne Detection by Miniature Neon Indicator Lamp Glow Discharge Detectors. IEEE Sensors Journal, 2011, 11, 1879-1884.	2.4	24
67	Effects of a Prolonged Submersion on Bone Strength and Metabolism in Young Healthy Submariners. Calcified Tissue International, 2010, 86, 8-13.	1.5	28
68	Terahertz Conductivity of Overdoped $Y_{1-x}Ca_xB_2Cu_3O_{7-\delta}$. Journal of Low Temperature Physics, 2010, 158, 647-652.	0.6	0
69	Low-cost plasma terahertz heterodyne image detection. Proceedings of SPIE, 2010, , .	0.8	2
70	Inexpensive imaging at THz frequencies with Ne indicator lamp detector arrays. , 2010, , .		0
71	THz imaging using Glow Discharge Detector (GDD) focal plane arrays and large aperture quasi optic mirrors. Proceedings of SPIE, 2010, , .	0.8	1
72	Effect of 99%GHz continuous millimeter wave electro-magnetic radiation on <i>E. coli</i> viability and metabolic activity. International Journal of Radiation Biology, 2010, 86, 390-399.	1.0	22

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73	Spectroscopic Study of Containers and Their Content Using a High-Resolution THz System. IEEE Sensors Journal, 2010, 10, 379-383.	2.4	7
74	High resolution high power W-band spectroscopy system (92–100 GHz). , 2009, , .		0
75	Attenuated Total Reflectance (ATR)-FTIR spectral measurements in MIR and FIR (THz) range. , 2009, , .		1
76	THz imaging of inexpensive glow discharge detector (GDD) pixel. , 2009, , .		1
77	VHF multi-channel coupler for RF communication. , 2009, , .		3
78	THz Polarization Effects on Detection Responsivity of Glow Discharge Detectors (GDDs). IEEE Sensors Journal, 2009, 9, 1181-1184.	2.4	42
79	First operation of 8Å–8 glow discharge detector VLSI focal plane array toward mm wave and THz radiation video rate imaging. , 2009, , .		1
80	The Surface impedance for various doping of $Y_{1-x}Ca_xBa_2Cu_3O_{7-\delta}$ thin films. Journal of Physics: Conference Series, 2009, 150, 052051.	0.3	0
81	Active terahertz imaging with Ne indicator lamp detector arrays. , 2009, , .		0
82	$Y_{1-x}Ca_xBa_2Cu_3O_{7-\delta}$ thin films: From phase fluctuations to a complex order parameter. Journal of Physics and Chemistry of Solids, 2008, 69, 3082-3084.	1.9	0
83	Terahertz detection mechanism of inexpensive sensitive glow discharge detectors. Journal of Applied Physics, 2008, 103, 093306.	1.1	49
84	Relatively inexpensive terahertz imaging. , 2008, , .		2
85	Design of inexpensive diffraction limited focal plane arrays for millimeter wavelength and terahertz radiation using glow discharge detector pixels. Journal of Applied Physics, 2008, 104, 033302.	1.1	41
86	Novel mm-wave and THz radiation active imaging system based on glow discharge detector (GDD) pixel. Proceedings of SPIE, 2008, , .	0.8	0
87	Glow discharge detector for terahertz and millimeter wave radiation detection and imaging. , 2007, , .		0
88	Inexpensive detector for terahertz imaging. Applied Optics, 2007, 46, 7207.	2.1	80
89	Radiation measurements in the new tandem accelerator FEL. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2004, 528, 23-27.	0.7	10
90	Radiation measurements in the new tandem accelerator FEL. , 2004, , 23-27.		0

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91	Enhanced super-radiant emission of FEM near waveguide-cutoff and near zero-slippage conditions. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2002, 483, 220-224.	0.7	2
92	Space-frequency model of amplified spontaneous emission and super-radiance in free-electron laser operating in the linear and non-linear regimes. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2002, 483, 510-515.	0.7	7
93	Optimization of power output and study of electron beam energy spread in a Free Electron Laser oscillator. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2001, 475, 579-582.	0.7	7
94	Enhancement of FEM radiation by prebunching of the e-beam (stimulated super-radiance). Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2001, 475, 303-307.	0.7	3
95	Superradiant and Stimulated Superradiant Emission in a Prebunched Beam Free-Electron Maser. Physical Review Letters, 2001, 86, 2561-2564.	2.9	34
96	Super-radiance in a prebunched beam free electron maser. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2000, 445, 247-252.	0.7	14
97	Efficiency enhancement of free electron Maser oscillator by mode selection with a prebunched electron beam. Applied Physics Letters, 2000, 76, 16-18.	1.5	13
98	High Spectral Coherence in Long-Pulse and Continuous Free-Electron Laser: Measurements and Theoretical Limitations. Physical Review Letters, 1999, 82, 5257-5260.	2.9	20
99	Study of radiation build-up and spectral evolution in the Israeli electrostatic accelerator free-electron laser oscillator. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1999, 429, 101-106.	0.7	0
100	Efficiency enhancement of a pre-bunched free-electron maser oscillator by locking to a single eigen frequency of the resonator. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1999, 429, 107-110.	0.7	2
101	Study of radiation build up and mode evolution in the Israeli electrostatic accelerator free-electron laser oscillator. IEEE Transactions on Plasma Science, 1999, 27, 563-567.	0.6	0
102	First operation of the Israeli Tandem Electrostatic Accelerator Free-Electron Laser. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1998, 407, 16-20.	0.7	9
103	Simulation of predicted performance and interpretation of radiation measurements on the Israeli tandem free-electron laser. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1998, 407, 81-86.	0.7	7
104	Experimental investigation of mode build-up and mode competition process in a prebunched free-electron maser oscillator. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1998, 407, 87-94.	0.7	6
105	Free electron maser oscillations near waveguide cutoff. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1998, 407, 95-101.	0.7	7
106	Optimization of the electron-beam transport in the Israeli tandem FEL. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1998, 407, 350-355.	0.7	1
107	First operation of the Israeli Tandem Electrostatic Accelerator Free-Electron Laser. , 1998, , 16-20.		0
108	Experimental investigation of mode build-up and mode competition process in a prebunched free-electron maser oscillator. , 1998, , 87-94.		0

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109	Free electron maser oscillations near waveguide cutoff. , 1998, , 95-101.		0
110	Simulation of predicted performance and interpretation of radiation measurements on the Israeli tandem free-electron laser. , 1998, , 81-86.		0
111	Optimization of the electron-beam transport in the Israeli tandem FEL. , 1998, , 350-355.		1
112	Lasing and radiation-mode dynamics in a Van de Graaff acceleratorâ€“free-electron laser with an internal cavity. Applied Physics Letters, 1997, 71, 3776-3778.	1.5	12
113	<title>Israeli tandem FEL: first-lasing results and future plans</title>. , 1997, , .		1
114	Performance improvement of FEMs by prebunching of the electron beam. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1997, 393, 361-365.	0.7	7
115	Visualization and simulation of electron beam transport along a FEL planar wiggler. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1997, 393, 419-425.	0.7	8
116	Diagnostics and electron-optics of a high current electron beam in the Tandem free electron laser â€” status report. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1996, 375, ABS1-ABS3.	0.7	8
117	Measurements and simulation of the radiation build-up process in a prebunched free-electron maser oscillator. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1996, 375, 164-168.	0.7	16
118	Versatile FEM of high efficiency and high spectral purity. , 0, , .		0
119	Design and development of the TAU Tandem FEL. , 0, , .		0
120	Beam dynamics in the 1.4 MeV tandem accelerator of the TAU FEL. , 0, , .		0
121	First lasing of the Israeli tandem electrostatic accelerator free electron laser. , 0, , .		0