Hakan Bagci

List of Publications by Citations

155 papers	**2,877** citations	**27** h-index	**48** g-index
247 ext. papers	**3,727** ext. citations	**3.3** avg, IF	**5.66** L-index

#	Paper	IF	Citations
155	A Multiplicative Calderon Preconditioner for the Electric Field Integral Equation. *IEEE Transactions on Antennas and Propagation*, **2008**, 56, 2398-2412	4.9	249
154	An energy aware fuzzy approach to unequal clustering in wireless sensor networks. *Applied Soft Computing Journal*, **2013**, 13, 1741-1749	7.5	225
153	An ultra-broadband multilayered graphene absorber. *Optics Express*, **2013**, 21, 29938-48	3.3	204
152	A dynamically reconfigurable Fano metamaterial through graphene tuning for switching and sensing applications. *Scientific Reports*, **2013**, 3, 2105	4.9	154
151	A Hybrid Time-Domain Discontinuous Galerkin-Boundary Integral Method for Electromagnetic Scattering Analysis. *IEEE Transactions on Antennas and Propagation*, **2014**, 62, 2841-2846	4.9	105
150	Exciting graphene surface plasmon polaritons through light and sound interplay. *Physical Review Letters*, **2013**, 111, 237404	7.4	93
149	A 3D tunable and multi-frequency graphene plasmonic cloak. *Optics Express*, **2013**, 21, 12592-603	3.3	71
148	An energy aware fuzzy unequal clustering algorithm for wireless sensor networks **2010**,		61
147	. *IEEE Transactions on Electromagnetic Compatibility*, **2007**, 49, 361-381	2	60
146	Thermal invisibility based on scattering cancellation and mantle cloaking. *Scientific Reports*, **2015**, 5, 9876	4.9	53
145	A Space-Time Mixed Galerkin Marching-on-in-Time Scheme for the Time-Domain Combined Field Integral Equation. *IEEE Transactions on Antennas and Propagation*, **2013**, 61, 1228-1238	4.9	52
144	A Fast Stroud-Based Collocation Method for Statistically Characterizing EMI/EMC Phenomena on Complex Platforms. *IEEE Transactions on Electromagnetic Compatibility*, **2009**, 51, 301-311	2	52
143	A Calderⓝ Multiplicative Preconditioner for the Combined Field Integral Equation. *IEEE Transactions on Antennas and Propagation*, **2009**, 57, 3387-3392	4.9	47
142	Graphene metascreen for designing compact infrared absorbers with enhanced bandwidth. *Nanotechnology*, **2015**, 26, 164002	3.4	46
141	. *IEEE Transactions on Antennas and Propagation*, **2013**, 61, 4120-4131	4.9	45
140	An ME-PC Enhanced HDMR Method for Efficient Statistical Analysis of Multiconductor Transmission Line Networks. *IEEE Transactions on Components, Packaging and Manufacturing Technology*, **2015**, 5, 685-696	1.7	42
139	Mirror-backed Dark Alumina: A Nearly Perfect Absorber for Thermoelectronics and Thermophotovotaics. *Scientific Reports*, **2016**, 6, 19984	4.9	40

138	A Higher Order Space-Time Galerkin Scheme for Time Domain Integral Equations. *IEEE Transactions on Antennas and Propagation*, **2014**, 62, 6183-6191	4.9	40
137	Validation through comparison: Measurement and calculation of the bistatic radar cross section of a stealth target. *Radio Science*, **2003**, 38, n/a-n/a	1.4	39
136	Explicit Solution of the Time Domain Volume Integral Equation Using a Stable Predictor-Corrector Scheme. *IEEE Transactions on Antennas and Propagation*, **2012**, 60, 5203-5214	4.9	38
135	Fast solution of mixed-potential time-domain integral equations for half-space environments. *IEEE Transactions on Geoscience and Remote Sensing*, **2005**, 43, 269-279	8.1	38
134	Synthesis and Optimization of Fractional-Order Elements Using a Genetic Algorithm. *IEEE Access*, **2019**, 7, 80233-80246	3.5	37
133	An ultra-broadband single-component fractional-order capacitor using MoS2-ferroelectric polymer composite. *Applied Physics Letters*, **2018**, 113, 093505	3.4	36
132	Energy flow characteristics of vector X-Waves. *Optics Express*, **2011**, 19, 8526-32	3.3	35
131	AN FFT-ACCELERATED FDTD SCHEME WITH EXACT ABSORBING CONDITIONS FOR CHARACTERIZING AXIALLY SYMMETRIC RESONANT STRUCTURES. *Progress in Electromagnetics Research*, **2011**, 111, 331-364	3.8	34
130	Acoustically induced transparency using Fano resonant periodic arrays. *Journal of Applied Physics*, **2015**, 118, 164901	2.5	32
129	DGTD Analysis of Electromagnetic Scattering From Penetrable Conductive Objects With IBC. *IEEE Transactions on Antennas and Propagation*, **2015**, 63, 5686-5697	4.9	28
128	Ferroelectric Fractional-Order Capacitors. *ChemElectroChem*, **2017**, 4, 2807-2813	4.3	26
127	A nonlinear plasmonic resonator for three-state all-optical switching. *Optics Express*, **2014**, 22, 6966-75	3.3	26
126	An Efficient Discontinuous Galerkin Finite Element Method for Highly Accurate Solution of Maxwell Equations. *IEEE Transactions on Antennas and Propagation*, **2012**, 60, 3992-3998	4.9	26
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124	Platonic scattering cancellation for bending waves in a thin plate. *Scientific Reports*, **2014**, 4, 4644	4.9	24
123	A Resistive Boundary Condition Enhanced DGTD Scheme for the Transient Analysis of Graphene. *IEEE Transactions on Antennas and Propagation*, **2015**, 63, 3065-3076	4.9	23
122	. *IEEE Transactions on Electromagnetic Compatibility*, **2010**, 52, 199-214	2	23
121	Shrinkage-Thresholding Enhanced Born Iterative Method for Solving 2D Inverse Electromagnetic Scattering Problem. *IEEE Transactions on Antennas and Propagation*, **2014**, 62, 3878-3884	4.9	22

120	Analysis and Regularization of the TD-EFIE Low-Frequency Breakdown. *IEEE Transactions on Antennas and Propagation*, **2009**, 57, 2034-2046	4.9	21
119	A Preconditioned Inexact Newton Method for Nonlinear Sparse Electromagnetic Imaging. *IEEE Geoscience and Remote Sensing Letters*, **2015**, 12, 532-536	4.1	20
118	Towards fractional-order capacitors with broad tunable constant phase angles: multi-walled carbon nanotube-polymer composite as a case study. *Journal Physics D: Applied Physics*, **2018**, 51, 065602	3	20
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116	. *IEEE Transactions on Electromagnetic Compatibility*, **2017**, 59, 172-183	2	18
115	. *IEEE Transactions on Microwave Theory and Techniques*, **2018**, 66, 1723-1735	4.1	17
114	Cosimulation of Electromagnetics-Circuit Systems Exploiting DGTD and MNA. *IEEE Transactions on Components, Packaging and Manufacturing Technology*, **2014**, 4, 1052-1061	1.7	17
113	Tunable fractional-order capacitor using layered ferroelectric polymers. *AIP Advances*, **2017**, 7, 095202	1.5	17
112	A Marching-on-in-Time Hierarchical Scheme for the Solution of the Time Domain Electric Field Integral Equation. *IEEE Transactions on Antennas and Propagation*, **2007**, 55, 3734-3738	4.9	17
111	Transient Thermal Analysis of 3-D Integrated Circuits Packages by the DGTD Method. *IEEE Transactions on Components, Packaging and Manufacturing Technology*, **2017**, 7, 862-871	1.7	16
110	A Calderón-Preconditioned Single Source Combined Field Integral Equation for Analyzing Scattering From Homogeneous Penetrable Objects. *IEEE Transactions on Antennas and Propagation*, **2011**, 59, 2315-2328	4.9	16
109	Reflection and transmission of normally incident full-vector X waves on planar interfaces. *Journal of the Optical Society of America A: Optics and Image Science, and Vision*, **2012**, 29, 139-52	1.8	16
108	A Stable Marching On-In-Time Scheme for Solving the Time-Domain Electric Field Volume Integral Equation on High-Contrast Scatterers. *IEEE Transactions on Antennas and Propagation*, **2015**, 63, 3098-3110	4.9	14
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105	Discontinuous Galerkin Time-Domain Modeling of Graphene Nanoribbon Incorporating the Spatial Dispersion Effects. *IEEE Transactions on Antennas and Propagation*, **2018**, 66, 3590-3598	4.9	11
104	Low-Frequency Scaling of the Standard and Mixed Magnetic Field and Müller Integral Equations. *IEEE Transactions on Antennas and Propagation*, **2014**, 62, 822-831	4.9	11
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101	Machine Learning in Electromagnetics: A Review and Some Perspectives for Future Research **2019**,		10
100	A Wavelet-Enhanced PWTD-Accelerated Time-Domain Integral Equation Solver for Analysis of Transient Scattering From Electrically Large Conducting Objects. *IEEE Transactions on Antennas and Propagation*, **2018**, 66, 2458-2470	4.9	10
99	INVESTIGATION OF FANO RESONANCES INDUCED BY HIGHER ORDER PLASMON MODES ON A CIRCULAR NANO-DISK WITH AN ELONGATED CAVITY. *Progress in Electromagnetics Research*, **2012**, 130, 187-206	3.8	10
98	COMPRESSION AND RADIATION OF HIGH-POWER SHORT RF PULSES. I. ENERGY ACCUMULATION IN DIRECT-FLOW WAVEGUIDE COMPRESSORS. *Progress in Electromagnetics Research*, **2011**, 116, 239-270	3.8	10
97	Steady-State Simulation of Semiconductor Devices Using Discontinuous Galerkin Methods. *IEEE Access*, **2020**, 8, 16203-16215	3.5	9
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94	On the Internal Resonant Modes in Marching-on-in-Time Solution of the Time Domain Electric Field Integral Equation. *IEEE Transactions on Antennas and Propagation*, **2013**, 61, 4389-4392	4.9	9
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91	Extreme Scale FMM-Accelerated Boundary Integral Equation Solver for Wave Scattering. *SIAM Journal of Scientific Computing*, **2019**, 41, C245-C268	2.6	8
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89	. *IEEE Transactions on Antennas and Propagation*, **2016**, 64, 663-674	4.9	8
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87	. *IEEE Transactions on Antennas and Propagation*, **2016**, 64, 2358-2369	4.9	8
86	Sparse Nonlinear Electromagnetic Imaging Accelerated With Projected Steepest Descent Algorithm. *IEEE Transactions on Geoscience and Remote Sensing*, **2017**, 55, 3810-3822	8.1	7
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83	Transient analysis of electromagnetic wave interactions on plasmonic nanostructures using a surface integral equation solver. *Journal of the Optical Society of America A: Optics and Image Science, and Vision*, **2016**, 33, 1747-59	1.8	7
82	Statistical Characterization of Electromagnetic Wave Propagation in Mine Environments. *IEEE Antennas and Wireless Propagation Letters*, **2013**, 12, 1602-1605	3.8	7
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79	Fractional-Order Inductor: Design, Simulation, and Implementation. *IEEE Access*, **2021**, 9, 73695-73702	3.5	7
78	Modeling Floating Potential Conductors Using Discontinuous Galerkin Method. *IEEE Access*, **2020**, 8, 75317-75386	3.7	7
77	An Efficient Mode-Based Domain Decomposition Hybrid 2-D/Q-2D Finite-Element Time-Domain Method for Power/Ground Plate-Pair Analysis. *IEEE Transactions on Microwave Theory and Techniques*, **2018**, 66, 4357-4366	4.1	6
76	Time-Domain Single-Source Integral Equations for Analyzing Scattering From Homogeneous Penetrable Objects. *IEEE Transactions on Antennas and Propagation*, **2013**, 61, 1239-1254	4.9	6
75	Localized surface plate modes via flexural Mie resonances. *Physical Review B*, **2017**, 95,	3.3	6
74	Behavior of obliquely incident vector Bessel beams at planar interfaces. *Journal of the Optical Society of America A: Optics and Image Science, and Vision*, **2013**, 30, 1172-9	1.8	6
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72	An explicit marching-on-in-time scheme for solving the time domain Kirchhoff integral equation. *Journal of the Acoustical Society of America*, **2019**, 146, 2068	2.2	5
71	DC IR-Drop Analysis of Multilayered Power Distribution Network by Discontinuous Galerkin Method With Thermal Effects Incorporated. *IEEE Transactions on Components, Packaging and Manufacturing Technology*, **2020**, 10, 1035-1042	1.7	5
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67	Fractional-Order Hartley Oscillator **2018**,		5

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65	An h-adaptive stochastic collocation method for stochastic EMC/EMI analysis **2010**,		5
64	On the propagation of truncated localized waves in dispersive silica. *Optics Express*, **2010**, 18, 25482-93	3.3	5
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62	Efficient stochastic EMC/EMI analysis using HDMR-generated surrogate models **2011**,		5
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60	Multiphysics Simulation of Plasmonic Photoconductive Devices Using Discontinuous Galerkin Methods. *IEEE Journal on Multiscale and Multiphysics Computational Techniques*, **2020**, 5, 188-200	1.5	5
59	Discontinuous Galerkin Time-Domain Analysis of Power-Ground Planes Taking Into Account Decoupling Capacitors. *IEEE Transactions on Components, Packaging and Manufacturing Technology*, **2017**, 7, 1476-1485	1.7	4
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57	Localized acoustic surface modes. *Applied Physics A: Materials Science and Processing*, **2016**, 122, 1	2.6	4
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55	Modulation of propagation-invariant Localized Waves for FSO communication systems. *Optics Express*, **2012**, 20, 15126-38	3.3	4
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49	A sparsity-regularized Born iterative method for reconstruction of two-dimensional piecewise continuous inhomogeneous domains **2016**,		3

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46	**2013**,		3
45	Adaptive integral method with fast Gaussian gridding for solving combined field integral equations. *Waves in Random and Complex Media*, **2009**, 19, 147-161	1.9	3
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43	Stable and Accurate Marching-on-in-Time Solvers of Time Domain EFIE, MFIE, and CFIE Based on Quasi-Exact Integration Technique. *IEEE Transactions on Antennas and Propagation*, **2021**, 69, 2218-2229	4.9	3
42	An Accelerated Nonlinear Contrast Source Inversion Scheme for Sparse Electromagnetic Imaging. *IEEE Access*, **2021**, 9, 54811-54819	3.5	3
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38	A hybridizable discontinuous Galerkin method for simulation of electrostatic problems with floating potential conductors. *International Journal of Numerical Modelling: Electronic Networks, Devices and Fields*, **2020**, e2804	1	2
37	Simplified Modal-Cancellation Approach for Substrate-Integrated-Waveguide Narrow-Band Filter Design. *Electronics (Switzerland)*, **2020**, 9, 962	2.6	2
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34	A discontinuous galerkin time domain-boundary integral method for analyzing transient electromagnetic scattering **2014**,		2
33	Quantum-corrected transient analysis of plasmonic nanostructures. *Optics Express*, **2017**, 25, 5891-5908	3.3	2
32	A FMM-FFT accelerated hybrid volume surface integral equation solver for electromagnetic analysis of re-entry space vehicles **2014**,		2
31	An IBC enhanced DGTD scheme for transient analysis of EM interactions with graphene **2014**,		2

30	**2013**,		2
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21	Mixed Discretization of the Time-Domain MFIE at Low Frequencies. *IEEE Antennas and Wireless Propagation Letters*, **2017**, 16, 1565-1568	3.8	1
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19	Graphene nanoelectromagnetics: From radio frequency, terahertz to mid-infrared **2019**, 31-59		1
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17	A stable higher order space time Galerkin marching-on-in-time scheme **2013**,		1
16	Explicit solution of Calderon preconditioned time domain integral equations **2013**,		1
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12	Fast and accurate solution of time domain electric field integral equation for dielectric half-space		1
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