

David A Anderson

List of Publications by Year in descending order

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Version: 2024-02-01

15
papers

907
citations

1040056

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1372567

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15
docs citations

15
times ranked

288
citing authors

#	ARTICLE	IF	CITATIONS
1	Broadband Rydberg Atom-Based Electric-Field Probe for SI-Traceable, Self-Calibrated Measurements. IEEE Transactions on Antennas and Propagation, 2014, 62, 6169-6182.	5.1	249
2	Sub-wavelength imaging and field mapping via electromagnetically induced transparency and Autler-Townes splitting in Rydberg atoms. Applied Physics Letters, 2014, 104, .	3.3	153
3	Electric field metrology for SI traceability: Systematic measurement uncertainties in electromagnetically induced transparency in atomic vapor. Journal of Applied Physics, 2017, 121, .	2.5	141
4	Atom-Based RF Electric Field Metrology: From Self-Calibrated Measurements to Subwavelength and Near-Field Imaging. IEEE Transactions on Electromagnetic Compatibility, 2017, 59, 717-728.	2.2	98
5	Using frequency detuning to improve the sensitivity of electric field measurements via electromagnetically induced transparency and Autler-Townes splitting in Rydberg atoms. Applied Physics Letters, 2016, 108, .	3.3	94
6	A Multiple-Band Rydberg Atom-Based Receiver: AM/FM Stereo Reception. IEEE Antennas and Propagation Magazine, 2021, 63, 63-76.	1.4	52
7	Rydberg Atoms for Radio-Frequency Communications and Sensing: Atomic Receivers for Pulsed RF Field and Phase Detection. IEEE Aerospace and Electronic Systems Magazine, 2020, 35, 48-56.	1.3	36
8	Atomic measurements of high-intensity VHF-band radio-frequency fields with a Rydberg vapor-cell detector. Physical Review A, 2019, 100, .	2.5	30
9	Electromagnetically Induced Transparency (EIT) and Autler-Townes (AT) splitting in the presence of band-limited white Gaussian noise. Journal of Applied Physics, 2018, 123, .	2.5	28
10	High-Resolution Antenna Near-Field Imaging and Sub-THz Measurements with a Small Atomic Vapor-Cell Sensing Element. , 2018, , .		12
11	Atomic 2D electric field imaging of a Yagi-Uda antenna near-field using a portable Rydberg-atom probe and measurement instrument. Advanced Optical Technologies, 2020, 9, 305-312.	1.7	8
12	Atom-based RF electric field measurements: An initial investigation of the measurement uncertainties. , 2015, , .		6
13	Atom-based RF field probe: From self-calibrated measurements to sub-wavelength imaging. , 2015, , .		0
14	High-Intensity Electric Field Measurements with Rydberg Vapors. , 2018, , .		0
15	High-Resolution Near-Field Imaging and Far-Field Antenna Measurements with Atomic Sensors. , 2018, , .		0