Affan A Baba

List of Publications by Year
in descending order

24 papers	271 citations	1040056 9 h-index	1125743 13 g-index
24 all docs	24 docs citations	24 times ranked	225 citing authors

#	Article	IF	Citations
1	Compact High-Gain Antenna With Simple All-Dielectric Partially Reflecting Surface. IEEE Transactions on Antennas and Propagation, 2018, 66, 4343-4348.	5.1	50
2	Achieving a Large Gain-Bandwidth Product From a Compact Antenna. IEEE Transactions on Antennas and Propagation, 2017, 65, 3437-3446.	5.1	46
3	A Millimeter-Wave Antenna System for Wideband 2-D Beam Steering. IEEE Transactions on Antennas and Propagation, 2020, 68, 3453-3464.	5.1	46
4	Broadband Partially Reflecting Superstrate-Based Antenna for 60 GHz Applications. IEEE Transactions on Antennas and Propagation, 2019, 67, 4854-4859.	5.1	28
5	A Horn Antenna Covered with a 3D-Printed Metasurface for Gain Enhancement. Electronics (Switzerland), 2021, 10, 119.	3.1	19
6	Ultrawideband Beam Steering at mm-Wave Frequency With Planar Dielectric Phase Transformers. IEEE Transactions on Antennas and Propagation, 2022, 70, 1719-1728.	5.1	19
7	High-Gain Low-Profile Chip-Fed Resonant Cavity Antennas for Millimeter-Wave Bands. IEEE Antennas and Wireless Propagation Letters, 2019, 18, 2394-2398.	4.0	15
8	Millimeter-Wave Low-Loss Multifeed Superstrate-Based Antenna. IEEE Transactions on Antennas and Propagation, 2020, 68, 3387-3396.	5.1	10
9	Millimeter-Wave Broadband Antennas With Low Profile Dielectric Covers. IEEE Access, 2019, 7, 186228-186235.	4.2	9
10	APERTURE AND MUTUAL COUPLED CYLINDRICAL DIELECTRIC RESONATOR ANTENNA ARRAY. Progress in Electromagnetics Research C, 2013, 37, 223-233.	0.9	7
11	A Stripline-Based Planar Wideband Feed for High-Gain Antennas with Partially Reflecting Superstructure. Micromachines, 2019, 10, 308.	2.9	5
12	EQUIVALENT LUMPED-ELEMENT CIRCUIT OF APERTURE AND MUTUALLY COUPLED CYLINDRICAL DIELECTRIC RESONATOR ANTENNA ARRAY. Progress in Electromagnetics Research C, 2013, 45, 15-31.	0.9	4
13	Improving radiation performance of extremely truncated RCAs through nearâ€field analysis. IET Microwaves, Antennas and Propagation, 2018, 12, 1954-1959.	1.4	4
14	A simple electromagnetic bandgap resonator antenna for 60 GHz wireless applications. , 2016, , .		3
15	Investigation of large directivity bandwidth in multilayer resonant cavity antennas. , 2017, , .		2
16	Preliminary results of an array of resonant cavity antennas at 60 GHz. , 2016, , .		1
17	Two-level optimization of a stepped dielectric superstrate to increase gain of a resonant cavity antenna. , 2017, , .		1
18	Sidelobe Suppression in Resonant Cavity Antennas through Near-field Analysis. , 2018, , .		1

#	Article	IF	Citations
19	A Passive Beam Reconfigurable Antenna System for Millimeter-wave Applications. , 2019, , .		1
20	Recent advances in electromagnetic band gap resonator antennas. , 2015, , .		0
21	All-Dielectric Compact Superstrates for High-Gain Resonant-Cavity Antennas: Designs & Measurements. , 2019, , .		0
22	On the design of broadband resonant cavity antennas with feeds suitable for integration with millimeter-wave transceiver chips. , 2019, , .		0
23	3D printable Phase Transformation Meta-structure for Resonant Cavity Antennas. , 2020, , .		0
24	A multi-layer Partially Reflecting Surface Antenna for cost-effective 3D printing manufacturing. , 2020, , .		0