

Derek A Mcnamara

List of Publications by Year in descending order

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Version: 2024-02-01

30
papers

475
citations

759233

12
h-index

713466

21
g-index

31
all docs

31
docs citations

31
times ranked

408
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Research and Development on Phase-Shifting Surfaces (PSSs). IEEE Antennas and Propagation Magazine, 2013, 55, 29-48. | 1.4 | 84 |
| 2 | Antenna Shape Synthesis Without Prior Specification of the Feedpoint Locations. IEEE Transactions on Antennas and Propagation, 2014, 62, 4919-4934. | 5.1 | 58 |
| 3 | Transmitarray Antenna Design Using Forward and Inverse Neural Network Modeling. IEEE Antennas and Wireless Propagation Letters, 2016, 15, 1483-1486. | 4.0 | 45 |
| 4 | Printed Hybrid Lens Antenna. IEEE Transactions on Antennas and Propagation, 2012, 60, 2514-2518. | 5.1 | 36 |
| 5 | Sub-structure characteristic mode concept for antenna shape synthesis. Electronics Letters, 2012, 48, 471. | 1.0 | 33 |
| 6 | The Shape Synthesis of Dielectric Resonator Antennas. IEEE Transactions on Antennas and Propagation, 2020, 68, 5766-5777. | 5.1 | 24 |
| 7 | Multi-feed single-beam power-combining reflectarray antenna. Electronics Letters, 2004, 40, 1035. | 1.0 | 19 |
| 8 | On Beam Squint in Offset-Fed Reflectarrays. IEEE Antennas and Wireless Propagation Letters, 2012, 11, 937-940. | 4.0 | 19 |
| 9 | Orthogonality properties of sub-structure characteristic modes. Microwave and Optical Technology Letters, 2016, 58, 481-486. | 1.4 | 19 |
| 10 | Derivation and Validation of the Basic Design Equations for Symmetric Sub-Reflectarrays. IEEE Transactions on Antennas and Propagation, 2012, 60, 2336-2346. | 5.1 | 18 |
| 11 | Angle of Incidence Effects in Reflectarray Antenna Design: Making gain increases possible by including incidence angle effects. IEEE Antennas and Propagation Magazine, 2016, 58, 52-64. | 1.4 | 18 |
| 12 | Feed Image Lobes in Offset-Fed Reflectarrays: Diagnosis and Solution. IEEE Transactions on Antennas and Propagation, 2014, 62, 216-227. | 5.1 | 17 |
| 13 | On the classification of characteristic modes, and the extension of sub-structure modes to include penetrable material. , 2014, , . | | 15 |
| 14 | Beam Squint Suppression in Offset-Fed Reflectarrays. IEEE Antennas and Wireless Propagation Letters, 2013, 12, 587-590. | 4.0 | 11 |
| 15 | Characteristic Modes Evaluation for Metallic Small Antennas With Unidirectional Pattern. IEEE Antennas and Wireless Propagation Letters, 2017, 16, 3026-3029. | 4.0 | 11 |
| 16 | Increasing Radiation Efficiency Using Antenna Shape Optimization Approach. IEEE Antennas and Wireless Propagation Letters, 2018, 17, 393-396. | 4.0 | 11 |
| 17 | Evaluation of the Available Directivity of a Radiating Structure in Terms of Its Characteristic Mode Content. IEEE Transactions on Antennas and Propagation, 2019, 67, 6686-6691. | 5.1 | 11 |
| 18 | Improved dual-feed single-beam power-combining reflectarray antenna. Electronics Letters, 2013, 49, 1595-1597. | 1.0 | 6 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | Grating Lobe Control in Dual-Feed Single-Beam Reflectarrays and Power Combiners. IEEE Antennas and Wireless Propagation Letters, 2013, 12, 1268-1271. | 4.0 | 3 |
| 20 | A characteristic mode examination of miniature unidirectional antennas. , 2016, , . | | 3 |
| 21 | The shape synthesis of unit elements for transmitarray antennas. , 2017, , . | | 3 |
| 22 | The use of inverse neural networks in transmitarray antenna design. , 2014, , . | | 2 |
| 23 | Shape Synthesis of 3-Layer Transmitarray Elements. , 2018, , . | | 2 |
| 24 | High-Order Unconditionally Stable Time-Domain Finite-Element Method. IEEE Antennas and Wireless Propagation Letters, 2019, 18, 1775-1779. | 4.0 | 2 |
| 25 | The shape synthesis of 3D electricallyâ€small conducting surface antennas. Electronics Letters, 2021, 57, 311-313. | 1.0 | 2 |
| 26 | Customized Spherical Near-Field Test Time Reduction for Wireless Base Station Antennas. IEEE Antennas and Wireless Propagation Letters, 2019, 18, 172-176. | 4.0 | 1 |
| 27 | Clarifications on the surface integral equation computation of the characteristic modes of dielectric objects. , 2017, , . | | 0 |
| 28 | The usefulness of two-dimensional (2D) computational electromagnetic analysis. , 2017, , . | | 0 |
| 29 | Towards the Shape Synthesis of Circularly-Polarized Dielectric Resonator Antennas. , 2021, , . | | 0 |
| 30 | Some Numerical Experiments on Enhanced-Directivity Dielectric Resonator Antennas. , 2021, , . | | 0 |