

# Jacek Gulgowski

## List of Publications by Year in descending order

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Version: 2024-02-01

30  
papers

168  
citations

1162367

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h-index

1199166

12  
g-index

32  
all docs

32  
docs citations

32  
times ranked

71  
citing authors

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 1  | Signal propagation in electromagnetic media described by fractional-order models. Communications in Nonlinear Science and Numerical Simulation, 2020, 82, 105029.   | 1.7 | 31        |
| 2  | Electromagnetic-based derivation of fractional-order circuit theory. Communications in Nonlinear Science and Numerical Simulation, 2019, 79, 104897.  | 1.7 | 24        |
| 3  | On Applications of Elements Modelled by Fractional Derivatives in Circuit Theory. Energies, 2020, 13, 5768.   | 1.6 | 13        |
| 4  | THE ANALYTIC EXTRACTION OF THE COMPLEX-VALUED COUPLING MATRIX AND ITS APPLICATION IN THE MICROWAVE FILTER MODELING. Progress in Electromagnetics Research, 2012, 130, 131-151.  | 1.6 | 11        |
| 5  | Fundamental properties of solutions to fractional-order Maxwell's equations. Journal of Electromagnetic Waves and Applications, 2020, 34, 1955-1976.  | 1.0 | 11        |
| 6  | On continuity and compactness of some nonlinear operators in the spaces of functions of bounded variation. Annali Di Matematica Pura Ed Applicata, 2016, 195, 1513-1530.  | 0.5 | 10        |
| 7  | Signal Propagation in Electromagnetic Media Modelled by the Two-Sided Fractional Derivative. Fractal and Fractional, 2021, 5, 10.   | 1.6 | 9         |
| 8  | On integral operators and nonlinear integral equations in the spaces of functions of bounded variation. Journal of Mathematical Analysis and Applications, 2016, 444, 230-250.  | 0.5 | 8         |
| 9  | Generalization of Kramers-Krönig relations for evaluation of causality in power-law media. Communications in Nonlinear Science and Numerical Simulation, 2021, 95, 105664.  | 1.7 | 7         |
| 10 | On some nonlinear operators in $\{\varvec{\Lambda}\} \hat{\hookrightarrow} B V$ -spaces. Journal of Fixed Point Theory and Applications, 2017, 19, 2785-2818.   | 0.6 | 6         |
| 11 | Central Limit Theorem for some non-stationary Markov chains. Studia Mathematica, 2019, 246, 109-131.  | 0.4 | 6         |
| 12 | Topological attitude towards path following, applied to localization of complex dispersion characteristics for a lossy microwave, ferrite-coupled transmission line. IMA Journal of Applied Mathematics, 2015, 80, 494-507. | 0.8 | 5         |
| 13 | Formulation of Time-Fractional Electrodynamics Based on Riemann-Silberstein Vector. Entropy, 2021, 23, 987.   | 1.1 | 5         |
| 14 | A global bifurcation theorem with applications to nonlinear Picard problems. Nonlinear Analysis: Theory, Methods & Applications, 2000, 41, 787-801.   | 0.6 | 4         |
| 15 | Global bifurcation and multiplicity results for Sturm-Liouville problems. Nonlinear Differential Equations and Applications, 2007, 14, 559-568.   | 0.4 | 3         |
| 16 | On the characterization of compactness in the space of functions of bounded variation in the sense of Jordan. Journal of Mathematical Analysis and Applications, 2020, 484, 123752.   | 0.5 | 3         |
| 17 | Recurrence scheme for FDTD-compatible discrete Green's function derived based on properties of Gauss hypergeometric function. Journal of Electromagnetic Waves and Applications, 2019, 33, 637-653.                         | 1.0 | 2         |
| 18 | On integral bounded variation. Revista De La Real Academia De Ciencias Exactas, Fisicas Y Naturales - Serie A: Matematicas, 2019, 113, 399-422.   | 0.6 | 2         |

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|----|---|-----|-----------|
| 19 | On Applications of Fractional Derivatives in Electromagnetic Theory. , 2020, , .  |     | 2         |
| 20 | Analytical Methods for Causality Evaluation of Photonic Materials. Materials, 2022, 15, 1536.   | 1.3 | 2         |
| 21 | Simulation of Wave Propagation in Media Described by Fractional-Order Models. , 2020, , .   |     | 1         |
| 22 | Global bifurcation theorem for a class of boundary conditions for ordinary differential equations of second order. Mathematische Nachrichten, 2005, 278, 401-408. | 0.4 | 0         |
| 23 | Bernstein approximations of nonlinear Sturm-Liouville problems. Nonlinear Analysis: Theory, Methods & Applications, 2010, 72, 2982-2989.                          | 0.6 | 0         |
| 24 | Influence of number of frequency points on rational function's zeroes and poles reliability in microwave filter tuning. , 2012, , .                               |     | 0         |
| 25 | Approximation of solutions to second order nonlinear Picard problems with Carathéodory right-hand side. Open Mathematics, 2014, 12, .                             | 0.5 | 0         |
| 26 | Fractional Order Circuit Elements Derived from Electromagnetism. , 2019, , .  |     | 0         |
| 27 | Applications of global bifurcation to existence theorems for Sturm-Liouville problems. Annales Polonici Mathematici, 2004, 83, 221-229.                           | 0.2 | 0         |
| 28 | Multiple global bifurcation branches for nonlinear Picard problems. Electronic Journal of Qualitative Theory of Differential Equations, 2009, , 1-15.             | 0.2 | 0         |
| 29 | Numerical detection of bifurcation point in the curve. Mathematica Applicanda, 2015, 43, .  | 0.2 | 0         |
| 30 | Uniform continuity of nonautonomous superposition operators in $\hat{L}^1BV$ -spaces. Forum Mathematicum, 2019, 31, 713-726.                                      | 0.3 | 0         |