

# AndrÃ© Nicolet

## List of Publications by Year in descending order

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69  
papers

1,518  
citations

331670

21  
h-index

330143

37  
g-index

70  
all docs

70  
docs citations

70  
times ranked

957  
citing authors

#	ARTICLE	IF	CITATIONS
1	2D electrostatic modeling of twisted pairs. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2021, ahead-of-print, .	0.9	0
2	Elastodynamic behavior of mechanical cloaks designed by direct lattice transformations. Wave Motion, 2020, 92, 102419.	2.0	15
3	Non-linear eigenvalue problems with GetDP and SLEPc: Eigenmode computations of frequency-dispersive photonic open structures. Computer Physics Communications, 2020, 257, 107509.	7.5	11
4	Continuous family of exact Dispersive Quasi-Normal Modal (DQNM) expansions for dispersive photonic structures. Optics Express, 2020, 28, 29016.	3.4	8
5	Photonics in highly dispersive media: the exact modal expansion. Optics Letters, 2018, 43, 5813.	3.3	26
6	Quasimode computation in structures including several dispersive materials. Proceedings of SPIE, 2017, , .	0.8	0
7	Design, fabrication and characterization of resonant metamaterial filters for infrared multispectral imaging. Thin Solid Films, 2015, 592, 296-304.	1.8	9
8	Resonant metamaterial absorbers for infrared spectral filtering: quasimodal analysis, design, fabrication, and characterization. Journal of the Optical Society of America B: Optical Physics, 2014, 31, 1339.	2.1	20
9	Transmission enhancement through square coaxial aperture arrays in metallic film: when leaky modes filter infrared light for multispectral imaging. Optics Letters, 2014, 39, 4723.	3.3	7
10	Quasimodal expansion of electromagnetic fields in open two-dimensional structures. Physical Review A, 2014, 89, .	2.5	87
11	Focus on NumÃ©lec 2012. EPJ Applied Physics, 2013, 64, 24501.	0.7	0
12	Adaptive perfectly matched layer for Woodâ€™s anomalies in diffraction gratings. Optics Express, 2012, 20, 28094.	3.4	4
13	Transformation optics PML and quasi-mode analysis: Application to diffraction gratings. , 2012, , .		0
14	1D model for low power soliton hybridized with a plasmon in realistic nonlinear planar structures. , 2012, , .		0
15	Electromagnetic forces on a discrete spherical invisibility cloak under time-harmonic illumination. Physical Review E, 2012, 85, 056602.	2.1	10
16	Resonances determination in microstructured films embedded in multilayered stacks. Proceedings of SPIE, 2011, , .	0.8	1
17	Finite element modelling of induced gratings in nonlinear optics. , 2011, , .		0
18	Invisibility cloaks, superlenses, and optical remote scattering. , 2011, , .		0

#	ARTICLE	IF	CITATIONS
19	Analysis of diffraction gratings via their resonances. , 2011, , .		1
20	Optical force on a discrete invisibility cloak in time-dependent fields. Physical Review A, 2011, 84, .	2.5	8
21	Transformation Optics, Generalized Cloaking and Superlenses. IEEE Transactions on Magnetics, 2010, 46, 2975-2981.	2.1	15
22	Acoustic band gaps in arrays of neutral inclusions. Journal of Computational and Applied Mathematics, 2010, 234, 1962-1969.	2.0	9
23	All-purpose finite element formulation for arbitrarily shaped crossed-gratings embedded in a multilayered stack. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2010, 27, 878.	1.5	37
24	Geometrical Transformations for Numerical Modelling and for New Material Design in Photonics. NATO Science for Peace and Security Series B: Physics and Biophysics, 2009, , 49-61.	0.3	0
25	Cloaking with Curved Spaces. Science, 2009, 323, 46-47.	12.6	11
26	Versatile full-vectorial finite element model for crossed gratings. Optics Letters, 2009, 34, 2216.	3.3	26
27	Tessellated and stellated invisibility. Optics Express, 2009, 17, 13389.	3.4	12
28	Revolution analysis of three-dimensional arbitrary cloaks. Optics Express, 2009, 17, 22603.	3.4	12
29	An all-purpose three-dimensional finite element model for crossed-gratings. , 2009, , .		1
30	Scattering by a two-dimensional doped photonic crystal presenting an optical Kerr effect. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2009, 28, 656-667.	0.9	1
31	Finite-Element Analysis of Cylindrical Invisibility Cloaks of Elliptical Cross Section. IEEE Transactions on Magnetics, 2008, 44, 1150-1153.	2.1	35
32	Electromagnetic analysis of cylindrical cloaks of an arbitrary cross section. Optics Letters, 2008, 33, 1584.	3.3	93
33	A homogenization route towards square cylindrical acoustic cloaks. New Journal of Physics, 2008, 10, 115030.	2.9	46
34	The Finite Element Method as applied to the calculation of the quantum efficiency in optoelectronic imaging devices. Proceedings of SPIE, 2008, , .	0.8	0
35	Finite element modeling of microstructured optical fibers: leaky modes, twisted geometries, and spatial Kerr solitons. , 2008, , .		0
36	Finite element analysis of helicoidal waveguides. IET Science, Measurement and Technology, 2007, 1, 67-70.	1.6	30

#	ARTICLE	IF	CITATIONS
37	Electromagnetic analysis of cylindrical invisibility cloaks and the mirage effect. Optics Letters, 2007, 32, 1069.	3.3	232
38	The finite element method as applied to the diffraction by an anisotropic grating. Optics Express, 2007, 15, 18089.	3.4	49
39	High order asymptotic analysis of twisted electrostatic problems. Physica B: Condensed Matter, 2007, 394, 335-338.	2.7	8
40	Asymptotic modelling of weakly twisted electrostatic problems. Comptes Rendus - Mecanique, 2006, 334, 91-97.	2.1	12
41	On the definition of energy in general electromagnetic media. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2006, 25, 55-63.	0.9	1
42	An energy-based vector hysteresis model for ferromagnetic materials. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2006, 25, 71-80.	0.9	47
43	Modelling of electromagnetic waves in periodic media with finite elements. Journal of Computational and Applied Mathematics, 2004, 168, 321-329.	2.0	53
44	Modeling of photonic crystal optical fibers with finite elements. IEEE Transactions on Magnetics, 2002, 38, 1261-1264.	2.1	22
45	Coupling of local and global quantities in various finite element formulations and its application to electrostatics, magnetostatics and magnetodynamics. IEEE Transactions on Magnetics, 1998, 34, 3078-3081.	2.1	68
46	Implicit Runge-Kutta methods for transient magnetic field computation. IEEE Transactions on Magnetics, 1996, 32, 1405-1408.	2.1	52
47	A discrete sequence associated with mixed finite elements and its gauge condition for vector potentials. IEEE Transactions on Magnetics, 1995, 31, 1356-1359.	2.1	30
48	A sinusoidal magnetic field computation in nonlinear materials. IEEE Transactions on Magnetics, 1995, 31, 3527-3529.	2.1	8
49	Mixed finite elements associated with a collection of tetrahedra, hexahedra and prisms. IEEE Transactions on Magnetics, 1994, 30, 2980-2983.	2.1	62
50	Boundary elements and singular integrals in 3D magnetostatics. Engineering Analysis With Boundary Elements, 1994, 13, 193-200.	3.7	4
51	Analysis of ferroresonance with a finite element method taking hysteresis into account. Journal of Magnetism and Magnetic Materials, 1994, 133, 557-560.	2.3	8
52	Transformation methods in computational electromagnetism. Journal of Applied Physics, 1994, 75, 6036-6038.	2.5	58
53	Modelling of electromechanical relays taking into account movement and electric circuits. IEEE Transactions on Magnetics, 1994, 30, 3236-3239.	2.1	34
54	Influence of hysteresis on the behaviour of coupled finite element-electric circuit models. IEEE Transactions on Magnetics, 1994, 30, 3383-3386.	2.1	11

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55	A new method for axisymmetrical linear and nonlinear problems. IEEE Transactions on Magnetics, 1993, 29, 1352-1355.	2.1	8
56	Coupling between edge finite elements, nodal finite elements and boundary elements for the calculation of 3-D eddy currents. IEEE Transactions on Magnetics, 1993, 29, 1470-1474.	2.1	2
57	A coupling between electric circuits and 2D magnetic field modeling. IEEE Transactions on Magnetics, 1993, 29, 1697-1700.	2.1	28
58	Modeling of ferromagnetic materials in 2D finite element problems using Preisach's model. IEEE Transactions on Magnetics, 1992, 28, 2614-2616.	2.1	32
59	Modelling of inductive effects in thin wire coils. IEEE Transactions on Magnetics, 1992, 28, 1190-1192.	2.1	8
60	Graphical language interpreter and meshing tool for electromagnetic computations. IEEE Transactions on Magnetics, 1992, 28, 1771-1773.	2.1	3
61	Finite elements-boundary elements coupling for the movement modeling in two-dimensional structures. Journal De Physique III, 1992, 2, 2035-2044.	0.3	11
62	Line integrals for the computation of global parameters from 2D eddy current numerical computations. IEEE Transactions on Magnetics, 1991, 27, 4987-4991.	2.1	3
63	Vector potential boundary element method for three dimensional magnetostatic. IEEE Transactions on Magnetics, 1991, 27, 3808-3810.	2.1	6
64	Corner modelization for FEM-BEM coupling. IEEE Transactions on Magnetics, 1991, 27, 4110-4113.	2.1	1
65	Numerical computation of the magnetostriction effect in ferromagnetic materials. Journal of Applied Physics, 1991, 69, 5794-5796.	2.5	18
66	Skin effect and proximity effect in multiconductor systems with applied currents and voltages. Journal of Applied Physics, 1991, 69, 5035-5037.	2.5	10
67	Comparison of various methods for the modeling of thin magnetic plates. Journal of Applied Physics, 1991, 69, 5047-5049.	2.5	3
68	Numerical computation of eddy currents in thin plates. IEEE Transactions on Magnetics, 1990, 26, 2376-2378.	2.1	6
69	Numerical modelization of transient current in relay. IEEE Transactions on Magnetics, 1989, 25, 3593-3595.	2.1	3