# David R Andersen

List of Publications by Year
in descending order



| | | | |
|---|---|---|---|
| 30 papers | 442 citations | 933447 10 h-index | 713466 21 g-index |
| 30 all docs | 30 docs citations | 30 times ranked | 257 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Quantum Size Effects in the Terahertz Nonlinear Response of Metallic Armchair Graphene Nanoribbons. IEEE Journal of Selected Topics in Quantum Electronics, 2017, 23, 148-155. | 2.9 | 7 |
| 2 | Third-Order Optical Response of Metallic Armchair Graphene Nanoribbons to an Elliptically-Polarized Terahertz Excitation Field. IEEE Journal of Selected Topics in Quantum Electronics, 2017, 23, 1-6. | 2.9 | 3 |
| 3 | Third-order terahertz response of gapped, nearly-metallic armchair graphene nanoribbons. Journal of Physics Condensed Matter, 2016, 28, 475301. | 1.8 | 7 |
| 4 | First-principles study of the terahertz third-order nonlinear response of metallic armchair graphene nanoribbons. Physical Review B, 2016, 93, . | 3.2 | 10 |
| 5 | Nonlinear THz response of metallic armchair graphene nanoribbon superlattices. Journal Physics D: Applied Physics, 2016, 49, 46LT01. | 2.8 | 5 |
| 6 | Collective modes of massive Dirac fermions in armchair graphene nanoribbons. Journal of Physics Condensed Matter, 2013, 25, 045303. | 1.8 | 8 |
| 7 | Plasmon dispersion in semimetallic armchair graphene nanoribbons. Physical Review B, 2012, 85, . | 3.2 | 36 |
| 8 | Intensity only microwave diffraction tomography using 802.15.4 wireless networks. , 2010, , . | | 0 |
| 9 | Low noise measurement of photocurrent from low impedance photodiodes. , 2010, , . | | 0 |
| 10 | Data acquisition unit for an implantable multi-channel optical glucose sensor. Integrated Computer-Aided Engineering, 2008, 15, 109-130. | 4.6 | 0 |
| 11 | Microwave tomography using dynamic 802.15.4 wireless networks. , 2007, , . | | 2 |
| 12 | Data acquisition unit for an implantable multi-channel optical glucose sensor. , 2007, , . | | 2 |
| 13 | Controller for a Continuous Near Infrared Glucose Sensor. , 2005, , . | | 5 |
| 14 | Multicolor solitons due to four-wave mixing. Physical Review E, 1998, 57, 3551-3555. | 2.1 | 40 |
| 15 | Solitary four-wave-mixing states in Ï‡^(3) media. Journal of the Optical Society of America B: Optical Physics, 1997, 14, 87. | 2.1 | 6 |
| 16 | Uniaxial nonlinear surface waves. Physical Review E, 1996, 53, 4077-4083. | 2.1 | 1 |
| 17 | Biaxial nonlinear surface waves. Physical Review E, 1996, 54, 4375-4383. | 2.1 | 0 |
| 18 | Asymptotic behavior of the self-defocusing nonlinear SchrÃ¶dinger equation for piecewise constant initial conditions. Journal of the Optical Society of America B: Optical Physics, 1995, 12, 698. | 2.1 | 7 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Properties of soliton-soliton collisions. Physical Review A, 1992, 45, 2606-2610. | 2.5 | 29 |
| 20 | Stationary fundamental dark surface waves. Journal of the Optical Society of America B: Optical Physics, 1991, 8, 759. | 2.1 | 23 |
| 21 | Stability analysis of the fundamental dark surface wave. Journal of the Optical Society of America B: Optical Physics, 1991, 8, 2265. | 2.1 | 10 |
| 22 | Soliton reflection and transmission at an interface. Physics Letters, Section A: General, Atomic and Solid State Physics, 1991, 156, 441-443. | 2.1 | 12 |
| 23 | Reflection and refraction of optical beams at dielectric interfaces. Computers in Physics, 1991, 5, 49. | 0.5 | 4 |
| 24 | Direct measurement of the transverse velocity of dark spatial solitons. Optics Letters, 1990, 15, 783. | 3.3 | 82 |
| 25 | Self-deflection of Three-dimensional Optical Beams by a Thin Nonlinear Layer with Saturable Dispersive and Absorptive Nonlinearity. Journal of Modern Optics, 1989, 36, 693-709. | 1.3 | 1 |
| 26 | Reflection and refraction of a three-dimensional Gaussian beam at a nonlinear interface. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 1989, 6, 1484. | 1.5 | 30 |
| 27 | SLAM - vectorized calculation of refraction and reflection for a Gaussian beam at a nonlinear interface in the presence of a diffusive Kerr-like nonlinearity. Computer Physics Communications, 1988, 48, 255-264. | 7.5 | 8 |
| 28 | Surface-wave excitation at the interface between diffusive Kerr-like nonlinear and linear media. Physical Review A, 1988, 37, 189-193. | 2.5 | 31 |
| 29 | Reversible optical computing circuits. Optics Letters, 1987, 12, 542. | 3.3 | 58 |
| 30 | Reversible computing: All-optical implementation of interaction and priese gates. Optics Communications, 1987, 62, 232-236. | 2.1 | 15 |