

# Robert M Westervelt

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/11096274/publications.pdf>

Version: 2024-02-01

30  
papers

1,591  
citations

430874

18  
h-index

552781

26  
g-index

30  
all docs

30  
docs citations

30  
times ranked

2044  
citing authors

| #  | ARTICLE   | IF   | CITATIONS |
|----|---|------|-----------|
| 1  | Combined microfluidic-micromagnetic separation of living cells in continuous flow. Biomedical Microdevices, 2006, 8, 299-308.                                   | 2.8  | 348       |
| 2  | The force acting on a superparamagnetic bead due to an applied magnetic field. Lab on A Chip, 2007, 7, 1294.  | 6.0  | 221       |
| 3  | Controlled Assembly of Magnetic Nanoparticles from Magnetotactic Bacteria Using Microelectromagnets Arrays. Nano Letters, 2004, 4, 995-998.                     | 9.1  | 177       |
| 4  | Integrated cell manipulation system—CMOS/microfluidic hybrid. Lab on A Chip, 2007, 7, 331-337.  | 6.0  | 136       |
| 5  | Collective dynamics of coupled oscillators with random pinning. Physica D: Nonlinear Phenomena, 1989, 36, 23-50.  | 2.8  | 89        |
| 6  | Microwave dielectric heating of drops in microfluidic devices. Lab on A Chip, 2009, 9, 1701.  | 6.0  | 86        |
| 7  | Imaging a Single-Electron Quantum Dot. Nano Letters, 2005, 5, 223-226.  | 9.1  | 77        |
| 8  | Imaging Cyclotron Orbits of Electrons in Graphene. Nano Letters, 2016, 16, 1690-1694.   | 9.1  | 68        |
| 9  | Imaging Electron Flow. Physics Today, 2003, 56, 47-52.  | 0.3  | 55        |
| 10 | Predicted power laws for delayed switching of charge-density waves. Physical Review B, 1989, 40, 10501-10508.   | 3.2  | 45        |
| 11 | Imaging coherent transport in graphene (part II): probing weak localization. Nanotechnology, 2010, 21, 274014.  | 2.6  | 43        |
| 12 | The Use of Soft Lithography to Fabricate Arrays of Schottky Diodes. Advanced Materials, 1998, 10, 574-577.  | 21.0 | 29        |
| 13 | Extracting the density profile of an electronic wave function in a quantum dot. Physical Review B, 2011, 84, .  | 3.2  | 29        |
| 14 | Portable NMR with Parallelism. Analytical Chemistry, 2020, 92, 2112-2120.   | 6.5  | 28        |
| 15 | High-Voltage Dielectrophoretic and Magnetophoretic Hybrid Integrated Circuit/Microfluidic Chip. Journal of Microelectromechanical Systems, 2009, 18, 1220-1225. | 2.5  | 26        |
| 16 | A microfluidic microprocessor: controlling biomimetic containers and cells using hybrid integrated circuit/microfluidic chips. Lab on A Chip, 2010, 10, 2937.   | 6.0  | 26        |
| 17 | Multiple-scattering theory for two-dimensional electron gases in the presence of spin-orbit coupling. Physical Review B, 2006, 73, .                            | 3.2  | 25        |
| 18 | Scanning gate imaging of quantum dots in 1D ultra-thin InAs/InP nanowires. Nanotechnology, 2011, 22, 185201.  | 2.6  | 19        |

| #  | ARTICLE  | IF   | CITATIONS |
|----|--|------|-----------|
| 19 | Imaging Universal Conductance Fluctuations in Graphene. ACS Nano, 2011, 5, 3622-3627.  | 14.6 | 18        |
| 20 | Imaging Andreev Reflection in Graphene. Nano Letters, 2020, 20, 4890-4894.   | 9.1  | 14        |
| 21 | Imaging electron motion in graphene. Semiconductor Science and Technology, 2017, 32, 024001.   | 2.0  | 11        |
| 22 | Fabrication of GaAs/AlGaAs high electron mobility transistors with 250 nm gates using conformal phase shift lithography. Sensors and Actuators A: Physical, 2000, 86, 122-126. | 4.1  | 7         |
| 23 | Magnetic and Electric Manipulation of a Single Cell in Fluid. Materials Research Society Symposia Proceedings, 2004, 820, 36.  | 0.1  | 6         |
| 24 | Analysis of Scanned Probe Images for Magnetic Focusing in Graphene. Journal of Electronic Materials, 2017, 46, 3837-3841.  | 2.2  | 6         |
| 25 | CMOS-based Magnetic Cell Manipulation System. Integrated Circuits and Systems, 2007, , 103-144.  | 0.2  | 1         |
| 26 | Imaging the flow of holes from a collimating contact in graphene. Semiconductor Science and Technology, 2020, 35, 09LT02.  | 2.0  | 1         |
| 27 | Fabrication of Coaxial and Triaxial Atomic Force Microscope Imaging Probes. Materials Research Society Symposia Proceedings, 2014, 1712, 13.                                   | 0.1  | 0         |
| 28 | New Microscopy – the Imaging of Quantum Materials. Microscopy and Microanalysis, 2014, 20, 1764-1765.  | 0.4  | 0         |
| 29 | New Advanced Electron Microscopy to Discover New Quantum Materials. Microscopy and Microanalysis, 2019, 25, 932-933.   | 0.4  | 0         |
| 30 | Programmable Hybrid Integrated Circuit/Microfluidic Chips. Biological and Medical Physics Series, 2013, , 23-43.   | 0.4  | 0         |