

David G Grier

List of Publications by Year in descending order

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172
papers

22,536
citations

20759

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8138

148
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175
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docs citations

175
times ranked

14721
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | An Interlaboratory Comparison on the Characterization of a Sub-micrometer Polydisperse Particle Dispersion. <i>Journal of Pharmaceutical Sciences</i> , 2022, 111, 699-709. | 1.6 | 6 |
| 2 | Dexterous holographic trapping of dark-seeking particles with Zernike holograms. <i>Optics Express</i> , 2022, 30, 23568. | 1.7 | 5 |
| 3 | Holographic characterization and tracking of colloidal dimers in the effective-sphere approximation. <i>Soft Matter</i> , 2021, 17, 2695-2703. | 1.2 | 10 |
| 4 | Dynamics of an acoustically trapped sphere in beating sound waves. <i>Physical Review Research</i> , 2021, 3, . | 1.3 | 6 |
| 5 | Microchemomechanical devices using DNA hybridization. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, . | 3.3 | 14 |
| 6 | Ultrasonic chaining of emulsion droplets. <i>Physical Review Research</i> , 2021, 3, . | 1.3 | 4 |
| 7 | The role of the medium in the effective-sphere interpretation of holographic particle characterization data. <i>Soft Matter</i> , 2020, 16, 891-898. | 1.2 | 21 |
| 8 | Holographic immunoassays: direct detection of antibodies binding to colloidal spheres. <i>Soft Matter</i> , 2020, 16, 10180-10186. | 1.2 | 7 |
| 9 | Quantitative Differentiation of Protein Aggregates From Other Subvisible Particles in Viscous Mixtures Through Holographic Characterization. <i>Journal of Pharmaceutical Sciences</i> , 2020, 109, 2405-2412. | 1.6 | 18 |
| 10 | Holographic molecular binding assays. <i>Scientific Reports</i> , 2020, 10, 1932. | 1.6 | 10 |
| 11 | CATCH: Characterizing and Tracking Colloids Holographically Using Deep Neural Networks. <i>Journal of Physical Chemistry B</i> , 2020, 124, 1602-1610. | 1.2 | 23 |
| 12 | Acoustokinetics: Crafting force landscapes from sound waves. <i>Physical Review Research</i> , 2020, 2, . | 1.3 | 19 |
| 13 | Interpreting holographic molecular binding assays with effective medium theory. <i>Biomedical Optics Express</i> , 2020, 11, 5225. | 1.5 | 7 |
| 14 | Optimizing the Synthesis of Monodisperse Colloidal Spheres Using Holographic Particle Characterization. <i>Langmuir</i> , 2019, 35, 6602-6609. | 1.6 | 14 |
| 15 | Above and beyond: holographic tracking of axial displacements in holographic optical tweezers. <i>Optics Express</i> , 2019, 27, 25375. | 1.7 | 11 |
| 16 | Tractor beams and related topological tweezers. , 2019, , . | | 0 |
| 17 | Flexible wide-field high-resolution scanning camera for continuous-wave acoustic holography. <i>Review of Scientific Instruments</i> , 2018, 89, 114901. | 0.6 | 2 |
| 18 | Classically accelerating solenoidal wave packets in two dimensions. <i>Physical Review A</i> , 2018, 98, . | 1.0 | 5 |

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|----|--|-----|-----------|
| 19 | Projecting non-diffracting waves with intermediate-plane holography. <i>Optics Express</i> , 2018, 26, 3926. | 1.7 | 9 |
| 20 | Machine-learning techniques for fast and accurate feature localization in holograms of colloidal particles. <i>Optics Express</i> , 2018, 26, 15221. | 1.7 | 50 |
| 21 | Photokinetic analysis of the forces and torques exerted by optical tweezers carrying angular momentum. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2017, 375, 20150432. | 1.6 | 14 |
| 22 | Holographic characterization of contaminants in water: Differentiation of suspended particles in heterogeneous dispersions. <i>Water Research</i> , 2017, 122, 431-439. | 5.3 | 30 |
| 23 | Holographic characterization of colloidal particles in turbid media. <i>Applied Physics Letters</i> , 2017, 111, . | 1.5 | 27 |
| 24 | Solute-mediated interactions between active droplets. <i>Physical Review E</i> , 2017, 96, 032607. | 0.8 | 52 |
| 25 | Holographic characterization of colloidal fractal aggregates. <i>Soft Matter</i> , 2016, 12, 8774-8780. | 1.2 | 27 |
| 26 | Charge renormalization in nominally apolar colloidal dispersions. <i>Physical Review E</i> , 2016, 93, 042612. | 0.8 | 3 |
| 27 | Tractor beams in the Rayleigh limit. <i>Physical Review A</i> , 2016, 93, . | 1.0 | 25 |
| 28 | Trochoidal trajectories of self-propelled Janus particles in a diverging laser beam. <i>Soft Matter</i> , 2016, 12, 6357-6364. | 1.2 | 39 |
| 29 | Tractor beams for optical micromanipulation. , 2016, , . | | 1 |
| 30 | Holographic Characterization of Protein Aggregates. <i>Journal of Pharmaceutical Sciences</i> , 2016, 105, 1074-1085. | 1.6 | 52 |
| 31 | Charged hydrophobic colloids at an oil-aqueous phase interface. <i>Physical Review E</i> , 2015, 92, 062306. | 0.8 | 33 |
| 32 | Perturbative theory for Brownian vortexes. <i>Physical Review E</i> , 2015, 91, 062144. | 0.8 | 11 |
| 33 | Holographic characterization of imperfect colloidal spheres. <i>Applied Physics Letters</i> , 2015, 107, . | 1.5 | 18 |
| 34 | Stimulus-responsive colloidal sensors with fast holographic readout. <i>Applied Physics Letters</i> , 2015, 107, 051903. | 1.5 | 11 |
| 35 | Celebrating <i>Soft Matter</i> 's 10th Anniversary: Monitoring colloidal growth with holographic microscopy. <i>Soft Matter</i> , 2015, 11, 1062-1066. | 1.2 | 17 |
| 36 | Machine-learning approach to holographic particle characterization. <i>Optics Express</i> , 2014, 22, 26884. | 1.7 | 51 |

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|----|---|-----|-----------|
| 37 | Fast feature identification for holographic tracking: the orientation alignment transform. Optics Express, 2014, 22, 12773. | 1.7 | 23 |
| 38 | Universal, strong and long-ranged trapping by optical conveyors. Optics Express, 2014, 22, 26834. | 1.7 | 19 |
| 39 | Digital colloids: reconfigurable clusters as high information density elements. Soft Matter, 2014, 10, 7468-7479. | 1.2 | 50 |
| 40 | Measuring Boltzmann's constant through holographic video microscopy of a single colloidal sphere. American Journal of Physics, 2014, 82, 23-31. | 0.3 | 46 |
| 41 | Dislocation reactions, grain boundaries, and irreversibility in two-dimensional lattices using topological tweezers. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 15544-15548. | 3.3 | 57 |
| 42 | Light-driven three-dimensional rotational motion of dandelion-shaped microparticles. Applied Physics Letters, 2013, 102, . | 1.5 | 16 |
| 43 | Robustness of Lorenz-Mie microscopy against defects in illumination. Optics Express, 2013, 21, 5968. | 1.7 | 16 |
| 44 | Comment on "Scattering Forces from the Curl of the Spin Angular Momentum of a Light Field". Physical Review Letters, 2013, 111, 059301. | 2.9 | 39 |
| 45 | Colloidal electroconvection in a thin horizontal cell. III. Interfacial and transient patterns on electrodes. Journal of Chemical Physics, 2012, 137, 014504. | 1.2 | 6 |
| 46 | Optical Forces and Torques in Nonuniform Beams of Light. Physical Review Letters, 2012, 108, 173602. | 2.9 | 90 |
| 47 | Holographic microrefractometer. Applied Physics Letters, 2012, 101, 091102. | 1.5 | 26 |
| 48 | Optical Conveyors: A Class of Active Tractor Beams. Physical Review Letters, 2012, 109, 163903. | 2.9 | 204 |
| 49 | Holographic characterization of individual colloidal spheres' porosities. Soft Matter, 2011, 7, 6816. | 1.2 | 44 |
| 50 | Hydrodynamic Pair Attractions between Driven Colloidal Particles. Physical Review Letters, 2011, 107, 158302. | 2.9 | 50 |
| 51 | Holographic particle-streak velocimetry. Optics Express, 2011, 19, 4393. | 1.7 | 27 |
| 52 | Extended and knotted optical traps in three dimensions. Optics Express, 2011, 19, 5833. | 1.7 | 64 |
| 53 | Holographic deconvolution microscopy for high-resolution particle tracking. Optics Express, 2011, 19, 16410. | 1.7 | 80 |
| 54 | Integrated instrument for holographic optical trapping and multicolor holographic video microscopy. , 2011, , . | | 0 |

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|----|---|-----|-----------|
| 55 | Three-dimensional Nanorod Tracking with Holographic Video Microscopy. , 2011, , . | | 1 |
| 56 | Two-dimensional optical thermal ratchets based on Fibonacci spirals. Physical Review E, 2011, 84, 011131. | 0.8 | 10 |
| 57 | Label-free molecular binding assays using holographic video microscopy. , 2011, , . | | 0 |
| 58 | Flow visualization and flow cytometry with holographic video microscopy. , 2010, , . | | 0 |
| 59 | Non-conservative forces in optical tweezers and Brownian vortexes. Proceedings of SPIE, 2010, , . | 0.8 | 0 |
| 60 | Single frame holographic particle image velocimetry. , 2010, , . | | 0 |
| 61 | Multidimensional Optical Fractionation of Colloidal Particles with Holographic Verification. Physical Review Letters, 2010, 104, 028302. | 2.9 | 69 |
| 62 | Multidimensional Optical Fractionation with Holographic Verification. , 2010, , . | | 0 |
| 63 | Sorting colloidal particles into multiple channels with optical forces: Prismatic optical fractionation. Physical Review E, 2010, 82, 051407. | 0.8 | 36 |
| 64 | Minimal model for Brownian vortexes. Physical Review E, 2010, 82, 021123. | 0.8 | 14 |
| 65 | Rotational and translational diffusion of copper oxide nanorods measured with holographic video microscopy. Optics Express, 2010, 18, 6555. | 1.7 | 72 |
| 66 | Optical solenoid beams. Optics Express, 2010, 18, 6988. | 1.7 | 178 |
| 67 | Strategies for three-dimensional particle tracking with holographic video microscopy. Optics Express, 2010, 18, 13563. | 1.7 | 194 |
| 68 | Non-conservative forces in optical tweezers. , 2010, , . | | 0 |
| 69 | Optical Manipulation with Counter Propagating Helical Beams. , 2010, , . | | 0 |
| 70 | Brownian Vortex Induced by Optical Tweezers. , 2009, , . | | 0 |
| 71 | Optical forces arising from phase gradients. Proceedings of SPIE, 2009, , . | 0.8 | 1 |
| 72 | Holographic microrheology of polysaccharides from Streptococcus mutans biofilms. Rheologica Acta, 2009, 48, 109-115. | 1.1 | 48 |

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| 73 | Switchable self-protected attractions in DNA-functionalized colloids. Nature Materials, 2009, 8, 590-595. | 13.3 | 134 |
| 74 | Brownian vortexes. Physical Review E, 2009, 80, 010401. | 0.8 | 45 |
| 75 | The effect of Mie resonances on trapping in optical tweezers: comment. Optics Express, 2009, 17, 2658. | 1.7 | 5 |
| 76 | Flow visualization and flow cytometry with holographic video microscopy. Optics Express, 2009, 17, 13071. | 1.7 | 134 |
| 77 | Colloidal Statistical Mechanics in Optical Vortices. , 2009, , . | | 0 |
| 78 | Automated Particle Characterization using Holographic Video Microscopy. , 2009, , . | | 0 |
| 79 | Theory of holographic optical trapping. Optics Express, 2008, 16, 15765. | 1.7 | 68 |
| 80 | Optical Forces Arising from Phase Gradients. Physical Review Letters, 2008, 100, 013602. | 2.9 | 222 |
| 81 | Influence of Nonconservative Optical Forces on the Dynamics of Optically Trapped Colloidal Spheres: The Fountain of Probability. Physical Review Letters, 2008, 101, 128301. | 2.9 | 125 |
| 82 | Vectorial Theory of Holographic Optical Trapping. , 2008, , . | | 0 |
| 83 | Holographic Video Microscopy for Biology. , 2008, , . | | 0 |
| 84 | Autocalibrated colloidal interaction measurements with extended optical traps. Physical Review E, 2008, 77, 051401. | 0.8 | 25 |
| 85 | Assembling mesoscopic systems with holographic optical traps. , 2007, 6483, 113. | | 2 |
| 86 | Holographic microscopy of holographically trapped three-dimensional structures. Optics Express, 2007, 15, 1505. | 1.7 | 169 |
| 87 | Characterizing and tracking single colloidal particles with video holographic microscopy. Optics Express, 2007, 15, 18275. | 1.7 | 272 |
| 88 | Three-dimensional holographic ring traps. , 2007, , . | | 24 |
| 89 | The Guiding Light: Holographic Manipulation of Mesoscopic Systems. , 2007, , . | | 0 |
| 90 | Anomalous collective dynamics in optically driven colloidal rings. Physical Review E, 2007, 75, 020401. | 0.8 | 40 |

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| 91 | Colloidal electrostatic interactions near a conducting surface. <i>Physical Review E</i> , 2007, 76, 041406. | 0.8 | 63 |
| 92 | Colloidal transport through optical tweezer arrays. <i>Physical Review E</i> , 2007, 75, 011407. | 0.8 | 54 |
| 93 | Colloidal statistical mechanics in optical vortices. , 2007, , . | | 0 |
| 94 | Colloidal electroconvection in a thin horizontal cell. II. Bulk electroconvection of water during parallel-plate electrolysis. <i>Journal of Chemical Physics</i> , 2006, 125, 144707. | 1.2 | 13 |
| 95 | Giant Colloidal Diffusivity on Corrugated Optical Vortices. <i>Physical Review Letters</i> , 2006, 96, 190601. | 2.9 | 103 |
| 96 | Anomalous Vibrational Dispersion in Holographically Trapped Colloidal Arrays. <i>Physical Review Letters</i> , 2006, 96, 088101. | 2.9 | 68 |
| 97 | Projecting extended optical traps with shape-phase holography. <i>Optics Letters</i> , 2006, 31, 1675. | 1.7 | 67 |
| 98 | Volumetric imaging of holographic optical traps. <i>Optics Express</i> , 2006, 14, 10907. | 1.7 | 43 |
| 99 | Holographic optical trapping. <i>Applied Optics</i> , 2006, 45, 880. | 2.1 | 200 |
| 100 | Optical traps with geometric aberrations. <i>Applied Optics</i> , 2006, 45, 3425. | 2.1 | 82 |
| 101 | Configurational temperatures and interactions in charge-stabilized colloid. <i>Journal of Chemical Physics</i> , 2005, 122, 064907. | 1.2 | 19 |
| 102 | Observation of Flux Reversal in a Symmetric Optical Thermal Ratchet. <i>Physical Review Letters</i> , 2005, 94, 110601. | 2.9 | 99 |
| 103 | Flux reversal in a two-state symmetric optical thermal ratchet. <i>Physical Review E</i> , 2005, 71, 060102. | 0.8 | 20 |
| 104 | Holographic assembly of quasicrystalline photonic heterostructures. <i>Optics Express</i> , 2005, 13, 5434. | 1.7 | 128 |
| 105 | Optimized holographic optical traps. <i>Optics Express</i> , 2005, 13, 5831. | 1.7 | 196 |
| 106 | Robustness of holographic optical traps against phase scaling errors. <i>Optics Express</i> , 2005, 13, 7458. | 1.7 | 30 |
| 107 | Manipulation and assembly of nanowires with holographic optical traps. <i>Optics Express</i> , 2005, 13, 8906. | 1.7 | 267 |
| 108 | Structure and scaling of helical modes of light. <i>Optics Letters</i> , 2005, 30, 477. | 1.7 | 56 |

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| 109 | One-dimensional optical thermal ratchets. <i>Journal of Physics Condensed Matter</i> , 2005, 17, S3685-S3695. | 0.7 | 30 |
| 110 | Colloidal electroconvection in a thin horizontal cell. I. Microscopic cooperative patterns at low voltage. <i>Journal of Chemical Physics</i> , 2005, 122, 164701. | 1.2 | 19 |
| 111 | Characterizing quantum-dot blinking using noise power spectra. <i>Applied Physics Letters</i> , 2004, 85, 819-821. | 1.5 | 114 |
| 112 | Statistically Locked-In Transport through Periodic Potential Landscapes. <i>Physical Review Letters</i> , 2004, 92, 130602. | 2.9 | 63 |
| 113 | Configurational Temperature of Charge-Stabilized Colloidal Monolayers. <i>Physical Review Letters</i> , 2004, 92, 148301. | 2.9 | 27 |
| 114 | Transport and fractionation in periodic potential-energy landscapes. <i>Physical Review E</i> , 2004, 70, 031108. | 0.8 | 95 |
| 115 | Microoptomechanical pumps assembled and driven by holographic optical vortex arrays. <i>Optics Express</i> , 2004, 12, 1144. | 1.7 | 401 |
| 116 | Processing carbon nanotubes with holographic optical tweezers. <i>Optics Express</i> , 2004, 12, 1978. | 1.7 | 106 |
| 117 | Transforming mesoscopic matter with holographic optical traps. , 2004, , . | | 0 |
| 118 | A revolution in optical manipulation. <i>Nature</i> , 2003, 424, 810-816. | 13.7 | 4,611 |
| 119 | Vortex rings in a constant electric field. <i>Nature</i> , 2003, 424, 267-268. | 13.7 | 187 |
| 120 | Confinement-Induced Colloidal Attractions in Equilibrium. <i>Physical Review Letters</i> , 2003, 91, 038302. | 2.9 | 103 |
| 121 | Optical peristalsis. <i>Applied Physics Letters</i> , 2003, 82, 3985-3987. | 1.5 | 46 |
| 122 | Modulated optical vortices. <i>Optics Letters</i> , 2003, 28, 872. | 1.7 | 187 |
| 123 | Structure of Optical Vortices. <i>Physical Review Letters</i> , 2003, 90, 133901. | 2.9 | 578 |
| 124 | Dynamic Holographic Optical Tweezers: Transforming Mesoscopic Matter with Light. , 2003, , . | | 0 |
| 125 | Kinetically Locked-In Colloidal Transport in an Array of Optical Tweezers. <i>Physical Review Letters</i> , 2002, 89, 128301. | 2.9 | 308 |
| 126 | Evolution of a colloidal critical state in an optical pinning potential landscape. <i>Physical Review B</i> , 2002, 66, . | 1.1 | 92 |

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| 127 | Weak long-ranged Casimir attraction in colloidal crystals. <i>Europhysics Letters</i> , 2002, 57, 451-457. | 0.7 | 10 |
| 128 | Nanofabrication with holographic optical tweezers. <i>Review of Scientific Instruments</i> , 2002, 73, 1956-1957. | 0.6 | 61 |
| 129 | Dynamic holographic optical tweezers. <i>Optics Communications</i> , 2002, 207, 169-175. | 1.0 | 1,484 |
| 130 | The charge of glass and silica surfaces. <i>Journal of Chemical Physics</i> , 2001, 115, 6716-6721. | 1.2 | 790 |
| 131 | Computer-generated holographic optical tweezer arrays. <i>Review of Scientific Instruments</i> , 2001, 72, 1810. | 0.6 | 390 |
| 132 | Annealing thin colloidal crystals with optical gradient forces. <i>Journal of Chemical Physics</i> , 2001, 114, 7570-7573. | 1.2 | 35 |
| 133 | Pair interaction of charged colloidal spheres near a charged wall. <i>Physical Review E</i> , 2001, 64, 050401. | 0.8 | 120 |
| 134 | Brownian dynamics of a sphere between parallel walls. <i>Europhysics Letters</i> , 2001, 53, 264-270. | 0.7 | 115 |
| 135 | Interactions in Colloidal Suspensions. , 2001, , 87-116. | | 7 |
| 136 | When like charges attract: interactions and dynamics in charge-stabilized colloidal suspensions. <i>Journal of Physics Condensed Matter</i> , 2000, 12, A85-A94. | 0.7 | 41 |
| 137 | Comment on "Monte Carlo study of structural ordering in charged colloids using a long-range attractive interaction". <i>Physical Review E</i> , 2000, 61, 980-982. | 0.8 | 24 |
| 138 | Hydrodynamic Coupling of Two Brownian Spheres to a Planar Surface. <i>Physical Review Letters</i> , 2000, 85, 3317-3320. | 2.9 | 211 |
| 139 | A surprisingly attractive couple. <i>Nature</i> , 1998, 393, 621-623. | 13.7 | 104 |
| 140 | Optical tweezer arrays and optical substrates created with diffractive optics. <i>Review of Scientific Instruments</i> , 1998, 69, 1974-1977. | 0.6 | 505 |
| 141 | Interactions, dynamics, and elasticity in charge-stabilized colloidal crystals. <i>Journal of Chemical Physics</i> , 1998, 109, 8659-8666. | 1.2 | 50 |
| 142 | Measurement of the Vortex Pair Interaction Potential in a Type-II Superconductor. <i>Physical Review Letters</i> , 1998, 80, 2693-2696. | 2.9 | 35 |
| 143 | Determining pair interactions from structural correlations. <i>Physical Review B</i> , 1998, 58, 14588-14593. | 1.1 | 4 |
| 144 | Interactions and Dynamics in Charge-Stabilized Colloids. <i>MRS Bulletin</i> , 1998, 23, 24-31. | 1.7 | 64 |

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| 145 | From Dynamics to Devices: Directed Self-Assembly of Colloidal Materials. MRS Bulletin, 1998, 23, 21-23. | 1.7 | 43 |
| 146 | Faithful Representation of Separable Distributions. Neural Computation, 1997, 9, 1305-1320. | 1.3 | 64 |
| 147 | Optical tweezers in colloid and interface science. Current Opinion in Colloid and Interface Science, 1997, 2, 264-270. | 3.4 | 191 |
| 148 | Like-charge attractions in metastable colloidal crystallites. Nature, 1997, 385, 230-233. | 13.7 | 564 |
| 149 | Sensors New age crystals. Nature, 1997, 389, 784-785. | 13.7 | 4 |
| 150 | VIDEO MICROSCOPY OF MONODISPERSE COLLOIDAL SYSTEMS. Annual Review of Physical Chemistry, 1996, 47, 421-462. | 4.8 | 123 |
| 151 | Melting of Metastable Crystallites in Charge-Stabilized Colloidal Suspensions. Physical Review Letters, 1996, 76, 3862-3865. | 2.9 | 119 |
| 152 | Topological disorder and conductance fluctuations in thin films. Physical Review B, 1996, 54, 2723-2727. | 1.1 | 14 |
| 153 | When Like Charges Attract: The Effects of Geometrical Confinement on Long-Range Colloidal Interactions. Physical Review Letters, 1996, 77, 1897-1900. | 2.9 | 428 |
| 154 | Methods of Digital Video Microscopy for Colloidal Studies. Journal of Colloid and Interface Science, 1996, 179, 298-310. | 5.0 | 3,190 |
| 155 | On the points of melting. Nature, 1996, 379, 773-775. | 13.7 | 2 |
| 156 | Stability of densely branched growth in dissipative diffusion-controlled systems. Physical Review E, 1996, 54, 2690-2695. | 0.8 | 11 |
| 157 | Origin of Stratification in Creaming Emulsions. Physical Review Letters, 1996, 77, 578-581. | 2.9 | 31 |
| 158 | Topological Disorder and Conductance Fluctuations in Granular Thin Films. Materials Research Society Symposia Proceedings, 1995, 407, 271. | 0.1 | 0 |
| 159 | Double layer relaxation at rough electrodes. Physical Review E, 1995, 52, R2161-R2164. | 0.8 | 19 |
| 160 | Martensitic transition in a confined colloidal suspension. Journal of Chemical Physics, 1995, 103, 1180-1190. | 1.2 | 79 |
| 161 | SCALING IN THE FREQUENCY-DEPENDENT ADMITTANCE OF ELECTRODEPOSITED FRACTAL ELECTRODES. Fractals, 1994, 02, 191-199. | 1.8 | 2 |
| 162 | Microscopic measurement of the pair interaction potential of charge-stabilized colloid. Physical Review Letters, 1994, 73, 352-355. | 2.9 | 460 |

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| 163 | The microscopic dynamics of freezing in supercooled colloidal fluids. <i>Journal of Chemical Physics</i> , 1994, 100, 9088-9095. | 1.2 | 122 |
| 164 | Dissipation, geometry, and the stability of the dense radial morphology. <i>Physical Review E</i> , 1993, 48, 3841-3848. | 0.8 | 16 |
| 165 | Observation of a commensurate array of flux chains in tilted flux lattices in Bi-Sr-Ca-Cu-O single crystals. <i>Physical Review Letters</i> , 1991, 66, 112-115. | 2.9 | 223 |
| 166 | Translational and bond-orientational order in the vortex lattice of the high-Tc superconductor $\text{Bi}_{2.1}\text{Sr}_{1.9}\text{Ca}_{0.9}\text{Cu}_2\text{O}_{8+\delta}$. <i>Physical Review Letters</i> , 1991, 66, 2270-2273. | 2.9 | 115 |
| 167 | Superlattices and long-range order in electrodeposited dendrites. <i>Physical Review Letters</i> , 1990, 64, 2152-2155. | 2.9 | 18 |
| 168 | Fractals and Patterns in Electrodeposition. , 1989, , 229-237. | | 1 |
| 169 | Characterization of morphology transitions in diffusion-controlled systems. <i>Physical Review A</i> , 1988, 38, 1370-1380. | 1.0 | 97 |
| 170 | Stability of the dense radial morphology in diffusive pattern formation. <i>Physical Review Letters</i> , 1987, 59, 2315-2318. | 2.9 | 104 |
| 171 | Growth of fractal crystals in amorphous GeSe_2 films. <i>Physical Review A</i> , 1987, 35, 4012-4015. | 1.0 | 70 |
| 172 | Morphology and Microstructure in Electrochemical Deposition of Zinc. <i>Physical Review Letters</i> , 1986, 56, 1264-1267. | 2.9 | 499 |