## Giovanni Volpe

List of Publications by Year in descending order

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CIOVANNI VOLDE

| #  | Article   | IF   | CITATIONS |
|----|---|------|-----------|
| 1  | Active Particles in Complex and Crowded Environments. Reviews of Modern Physics, 2016, 88, .  | 16.4 | 1,875     |
| 2  | Optical trapping and manipulation of nanostructures. Nature Nanotechnology, 2013, 8, 807-819.   | 15.6 | 829       |
| 3  | Microswimmers in patterned environments. Soft Matter, 2011, 7, 8810.  | 1.2  | 441       |
| 4  | Circular Motion of Asymmetric Self-Propelling Particles. Physical Review Letters, 2013, 110, 198302.  | 2.9  | 333       |
| 5  | Surface Plasmon Radiation Forces. Physical Review Letters, 2006, 96, 238101.  | 2.9  | 259       |
| 6  | Active Brownian motion tunable by light. Journal of Physics Condensed Matter, 2012, 24, 284129.   | 0.7  | 251       |
| 7  | Surface Plasmon Optical Tweezers: Tunable Optical Manipulation in the Femtonewton Range. Physical<br>Review Letters, 2008, 100, 186804.                     | 2.9  | 235       |
| 8  | Simulation of a Brownian particle in an optical trap. American Journal of Physics, 2013, 81, 224-230.   | 0.3  | 201       |
| 9  | BRAPH: A graph theory software for the analysis of brain connectivity. PLoS ONE, 2017, 12, e0178798.  | 1.1  | 187       |
| 10 | Generation of cylindrical vector beams with few-mode fibers excited by Laguerre–Gaussian beams.<br>Optics Communications, 2004, 237, 89-95.                 | 1.0  | 180       |
| 11 | Machine learning for active matter. Nature Machine Intelligence, 2020, 2, 94-103.   | 8.3  | 164       |
| 12 | Sorting of chiral microswimmers. Soft Matter, 2013, 9, 6376.  | 1.2  | 150       |
| 13 | Optical tweezers and their applications. Journal of Quantitative Spectroscopy and Radiative Transfer, 2018, 218, 131-150.                                   | 1.1  | 150       |
| 14 | Simulation of the active Brownian motion of a microswimmer. American Journal of Physics, 2014, 82, 659-664.   | 0.3  | 147       |
| 15 | Optical tweezers — from calibration to applications: a tutorial. Advances in Optics and Photonics, 2021, 13, 74.  | 12.1 | 127       |
| 16 | Influence of Noise on Force Measurements. Physical Review Letters, 2010, 104, 170602.   | 2.9  | 118       |
| 17 | Disrupted Network Topology in Patients with Stable and Progressive Mild Cognitive Impairment and Alzheimer's Disease. Cerebral Cortex, 2016, 26, 3476-3493. | 1.6  | 110       |
| 18 | Objective comparison of methods to decode anomalous diffusion. Nature Communications, 2021, 12, 6253.   | 5.8  | 109       |

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|----|--|-----|-----------|
| 19 | Torque Detection using Brownian Fluctuations. Physical Review Letters, 2006, 97, 210603.   | 2.9 | 94        |
| 20 | Fractal plasmonics: subdiffraction focusing and broadband spectral response by a Sierpinski nanocarpet. Optics Express, 2011, 19, 3612.  | 1.7 | 87        |
| 21 | Aberrant cerebral network topology and mild cognitive impairment in early Parkinson's disease.<br>Human Brain Mapping, 2015, 36, 2980-2995.  | 1.9 | 87        |
| 22 | Computational toolbox for optical tweezers in geometrical optics. Journal of the Optical Society of<br>America B: Optical Physics, 2015, 32, B11.  | 0.9 | 86        |
| 23 | Light-controlled assembly of active colloidal molecules. Journal of Chemical Physics, 2019, 150, 094905.   | 1.2 | 83        |
| 24 | Real-Time Detection of Hyperosmotic Stress Response in Optically Trapped Single Yeast Cells Using<br>Raman Microspectroscopy. Analytical Chemistry, 2005, 77, 2564-2568.                               | 3.2 | 80        |
| 25 | Brownian Motion in a Speckle Light Field: Tunable Anomalous Diffusion and Selective Optical<br>Manipulation. Scientific Reports, 2014, 4, 3936.  | 1.6 | 79        |
| 26 | Speckle optical tweezers: micromanipulation with random light fields. Optics Express, 2014, 22, 18159.   | 1.7 | 75        |
| 27 | Raman imaging of floating cells. Optics Express, 2005, 13, 6105.   | 1.7 | 73        |
| 28 | Formation, compression and surface melting of colloidal clusters by active particles. Soft Matter, 2015, 11, 6187-6191.  | 1.2 | 68        |
| 29 | The topography of the environment alters the optimal search strategy for active particles.<br>Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 11350-11355. | 3.3 | 66        |
| 30 | Measurement of anomalous diffusion using recurrent neural networks. Physical Review E, 2019, 100, 010102.  | 0.8 | 65        |
| 31 | The lag phase and G1 phase of a single yeast cell monitored by Raman microspectroscopy. Journal of<br>Raman Spectroscopy, 2006, 37, 858-864.   | 1.2 | 64        |
| 32 | Brownian motion in a nonhomogeneous force field and photonic force microscope. Physical Review E, 2007, 76, 061118.  | 0.8 | 64        |
| 33 | Step-by-step guide to the realization of advanced optical tweezers. Journal of the Optical Society of America B: Optical Physics, 2015, 32, B84.   | 0.9 | 64        |
| 34 | Disorder-mediated crowd control in an active matter system. Nature Communications, 2016, 7, 10907.   | 5.8 | 64        |
| 35 | Experimental realization of a minimal microscopic heat engine. Physical Review E, 2017, 96, 052106.  | 0.8 | 64        |
| 36 | Nonadditivity of critical Casimir forces. Nature Communications, 2016, 7, 11403.   | 5.8 | 62        |

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|----|---|------|-----------|
| 37 | Effective drifts in dynamical systems with multiplicative noise: a review of recent progress. Reports on Progress in Physics, 2016, 79, 053901.                                       | 8.1  | 62        |
| 38 | Force measurement in the presence of Brownian noise: Equilibrium-distribution method versus drift method. Physical Review E, 2011, 83, 041113.  | 0.8  | 61        |
| 39 | The Smoluchowski-Kramers Limit of Stochastic Differential Equations with Arbitrary State-Dependent Friction. Communications in Mathematical Physics, 2015, 336, 1259-1283.            | 1.0  | 61        |
| 40 | Non-Boltzmann stationary distributions and nonequilibrium relations in active baths. Physical Review<br>E, 2016, 94, 062150.  | 0.8  | 61        |
| 41 | Quantitative digital microscopy with deep learning. Applied Physics Reviews, 2021, 8, .   | 5.5  | 60        |
| 42 | Dynamic Control of Particle Deposition in Evaporating Droplets by an External Point Source of Vapor.<br>Journal of Physical Chemistry Letters, 2018, 9, 659-664.                      | 2.1  | 58        |
| 43 | Optical tweezers: theory and practice. European Physical Journal Plus, 2020, 135, 1.  | 1.2  | 57        |
| 44 | Feedback-controlled active brownian colloids with space-dependent rotational dynamics. Nature Communications, 2020, 11, 4223.   | 5.8  | 55        |
| 45 | Quantitative assessment of non-conservative radiation forces in an optical trap. Europhysics Letters, 2009, 86, 38002.  | 0.7  | 54        |
| 46 | Two-dimensional nature of the active Brownian motion of catalytic microswimmers at solid and liquid interfaces. New Journal of Physics, 2017, 19, 065008.                             | 1.2  | 53        |
| 47 | Digital video microscopy enhanced by deep learning. Optica, 2019, 6, 506.   | 4.8  | 53        |
| 48 | Microscopic Engine Powered by Critical Demixing. Physical Review Letters, 2018, 120, 068004.  | 2.9  | 52        |
| 49 | Subtypes of Alzheimer's Disease Display Distinct Network Abnormalities Extending Beyond Their<br>Pattern of Brain Atrophy. Frontiers in Neurology, 2019, 10, 524.                     | 1.1  | 52        |
| 50 | Mie scattering distinguishes the topological charge of an optical vortex: a homage to Gustav Mie.<br>New Journal of Physics, 2009, 11, 013046.  | 1.2  | 49        |
| 51 | Engineering Sensorial Delay to Control Phototaxis and Emergent Collective Behaviors. Physical<br>Review X, 2016, 6, .   | 2.8  | 49        |
| 52 | Noise-Induced Drift in Stochastic Differential Equations with Arbitrary Friction and Diffusion in the Smoluchowski-Kramers Limit. Journal of Statistical Physics, 2012, 146, 762-773. | 0.5  | 47        |
| 53 | Microscopic metavehicles powered and steered by embedded optical metasurfaces. Nature Nanotechnology, 2021, 16, 970-974.  | 15.6 | 44        |
| 54 | Backscattering position detection for photonic force microscopy. Journal of Applied Physics, 2007, 102, 084701.   | 1.1  | 42        |

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|----|--|-----|-----------|
| 55 | High-performance reconstruction of microscopic force fields from Brownian trajectories. Nature<br>Communications, 2018, 9, 5166.   | 5.8 | 41        |
| 56 | Stability of graph theoretical measures in structural brain networks in Alzheimer's disease. Scientific<br>Reports, 2018, 8, 11592.  | 1.6 | 41        |
| 57 | Optical tweezers with cylindrical vector beams produced by optical fibers. , 2004, , .   |     | 39        |
| 58 | Novel perspectives for the application of total internal reflection microscopy. Optics Express, 2009, 17, 23975.   | 1.7 | 38        |
| 59 | Virtual genetic diagnosis for familial hypercholesterolemia powered by machine learning. European<br>Journal of Preventive Cardiology, 2020, 27, 1639-1646.                | 0.8 | 37        |
| 60 | Stratonovich-to-Itô transition in noisy systems with multiplicative feedback. Nature Communications, 2013, 4, 2733.  | 5.8 | 36        |
| 61 | Active Atoms and Interstitials in Two-Dimensional Colloidal Crystals. Physical Review Letters, 2018, 120, 268004.  | 2.9 | 36        |
| 62 | Active matter alters the growth dynamics of coffee rings. Soft Matter, 2019, 15, 1488-1496.  | 1.2 | 33        |
| 63 | Altered structural network organization in cognitively normal individuals with amyloid pathology.<br>Neurobiology of Aging, 2018, 64, 15-24.                               | 1.5 | 30        |
| 64 | Label-free nanofluidic scattering microscopy of size and mass of single diffusing molecules and nanoparticles. Nature Methods, 2022, 19, 751-758.                          | 9.0 | 30        |
| 65 | Abnormal Structural Brain Connectome in Individuals with Preclinical Alzheimer's Disease. Cerebral Cortex, 2018, 28, 3638-3649.  | 1.6 | 29        |
| 66 | Amyloid Network Topology Characterizes the Progression of Alzheimer's Disease During the<br>Predementia Stages. Cerebral Cortex, 2018, 28, 340-349.                        | 1.6 | 28        |
| 67 | Tuning phototactic robots with sensorial delays. Physical Review E, 2018, 98, .  | 0.8 | 28        |
| 68 | Fast and Accurate Nanoparticle Characterization Using Deep-Learning-Enhanced Off-Axis Holography.<br>ACS Nano, 2021, 15, 2240-2250.  | 7.3 | 28        |
| 69 | Dynamics of a growing cell in an optical trap. Applied Physics Letters, 2006, 88, 231106.  | 1.5 | 27        |
| 70 | Classification, inference and segmentation of anomalous diffusion with recurrent neural networks.<br>Journal of Physics A: Mathematical and Theoretical, 2021, 54, 294003. | 0.7 | 25        |
| 71 | Stochastic resonant damping in a noisy monostable system: Theory and experiment. Physical Review E, 2008, 77, 051107.  | 0.8 | 23        |
| 72 | Thermophoresis of Brownian particles driven by coloured noise. Europhysics Letters, 2012, 99, 60002.   | 0.7 | 23        |

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|----|---|-----|-----------|
| 73 | The Small-Mass Limit for Langevin Dynamics with Unbounded Coefficients and Positive Friction.<br>Journal of Statistical Physics, 2016, 163, 659-673.        | 0.5 | 21        |
| 74 | Controlling the dynamics of colloidal particles by critical Casimir forces. Soft Matter, 2019, 15, 2152-2162.   | 1.2 | 21        |
| 75 | Intracavity optical trapping of microscopic particles in a ring-cavity fiber laser. Nature<br>Communications, 2019, 10, 2683.                               | 5.8 | 21        |
| 76 | Influence of sensorial delay on clustering and swarming. Physical Review E, 2019, 100, 012607.  | 0.8 | 20        |
| 77 | Clustering of Janus particles in an optical potential driven by hydrodynamic fluxes. Soft Matter, 2019, 15, 5748-5759.                                      | 1.2 | 20        |
| 78 | 10-fold detection range increase in quadrant-photodiode position sensing for photonic force microscope. Review of Scientific Instruments, 2008, 79, 106101. | 0.6 | 18        |
| 79 | Small Mass Limit of a Langevin Equation on a Manifold. Annales Henri Poincare, 2017, 18, 707-755.   | 0.8 | 18        |
| 80 | Dendritic spines are lost in clusters in Alzheimer's disease. Scientific Reports, 2021, 11, 12350.  | 1.6 | 18        |
| 81 | Extracting quantitative biological information from bright-field cell images using deep learning.<br>Biophysics Reviews, 2021, 2, .                         | 1.0 | 18        |
| 82 | Machine learning reveals complex behaviours in optically trapped particles. Machine Learning: Science and Technology, 2020, 1, 045009.                      | 2.4 | 17        |
| 83 | Singular-point characterization in microscopic flows. Physical Review E, 2008, 77, 037301.  | 0.8 | 16        |
| 84 | Kümmel <i>etÂal.</i> Reply:. Physical Review Letters, 2014, 113, 029802.  | 2.9 | 16        |
| 85 | Anisotropic dynamics of a self-assembled colloidal chain in an active bath. Soft Matter, 2020, 16, 5609-5614.   | 1.2 | 16        |
| 86 | Gain-Assisted Optomechanical Position Locking of Metal/Dielectric Nanoshells in Optical Potentials.<br>ACS Photonics, 2020, 7, 1262-1270.                   | 3.2 | 15        |
| 87 | Non-equilibrium properties of an active nanoparticle in a harmonic potential. Nature<br>Communications, 2021, 12, 1902.                                     | 5.8 | 15        |
| 88 | Active droploids. Nature Communications, 2021, 12, 6005.  | 5.8 | 15        |
| 89 | Real-time actin-cytoskeleton depolymerization detection in a single cell using optical tweezers. Optics Express, 2007, 15, 7922.                            | 1.7 | 14        |
| 90 | Volpe <i>etÂal.</i> Reply:. Physical Review Letters, 2011, 107, .   | 2.9 | 14        |

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|-----|---|-----|-----------|
| 91  | Raman tweezers for tire and road wear micro- and nanoparticles analysis. Environmental Science:<br>Nano, 2022, 9, 145-161.  | 2.2 | 14        |
| 92  | Enhanced force-field calibration via machine learning. Applied Physics Reviews, 2020, 7, .  | 5.5 | 13        |
| 93  | Age-related differences in network structure and dynamic synchrony of cognitive control.<br>NeuroImage, 2021, 236, 118070.  | 2.1 | 13        |
| 94  | Deep learning from MRI-derived labels enables automatic brain tissue classification on human brain<br>CT. NeuroImage, 2021, 244, 118606.  | 2.1 | 13        |
| 95  | Long-term influence of fluid inertia on the diffusion of a Brownian particle. Physical Review E, 2014, 90, 042309.  | 0.8 | 12        |
| 96  | Intercellular communication induces glycolytic synchronization waves between individually<br>oscillating cells. Proceedings of the National Academy of Sciences of the United States of America,<br>2021, 118, e2010075118. | 3.3 | 12        |
| 97  | Metastable clusters and channels formed by active particles with aligning interactions. New Journal of Physics, 2017, 19, 115008.   | 1.2 | 10        |
| 98  | Multiplex connectome changes across the alzheimer's disease spectrum using gray matter and amyloid<br>data. Cerebral Cortex, 2022, 32, 3501-3515.   | 1.6 | 10        |
| 99  | Deep learning in light–matter interactions. Nanophotonics, 2022, 11, 3189-3214.   | 2.9 | 10        |
| 100 | The Cognitive Connectome in Healthy Aging. Frontiers in Aging Neuroscience, 2021, 13, 694254.   | 1.7 | 9         |
| 101 | Comparison of Two-Dimensional- and Three-Dimensional-Based U-Net Architectures for Brain Tissue<br>Classification in One-Dimensional Brain CT. Frontiers in Computational Neuroscience, 2021, 15, 785244.                   | 1.2 | 9         |
| 102 | Optical trapping and control of a dielectric nanowire by a nanoaperture. Optics Letters, 2015, 40, 4807.  | 1.7 | 8         |
| 103 | Delayed correlations improve the reconstruction of the brain connectome. PLoS ONE, 2020, 15, e0228334.  | 1.1 | 8         |
| 104 | Ordering of binary colloidal crystals by random potentials. Soft Matter, 2020, 16, 4267-4273.   | 1.2 | 8         |
| 105 | Optical trapping and critical Casimir forces. European Physical Journal Plus, 2021, 136, 1.   | 1.2 | 8         |
| 106 | Directed Brain Connectivity Identifies Widespread Functional Network Abnormalities in Parkinson's<br>Disease. Cerebral Cortex, 2022, 32, 593-607.   | 1.6 | 8         |
| 107 | Computational toolbox for optical tweezers in geometrical optics. Journal of the Optical Society of America B: Optical Physics, 2015, 32, B6.   | 0.9 | 7         |
| 108 | Numerical Simulations of Active Brownian Particles. Soft and Biological Matter, 2019, , 211-238.  | 0.3 | 6         |

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|-----|---|-----|-----------|
| 109 | Polar POLICRYPS diffractive structures generate cylindrical vector beams. Applied Physics Letters, 2015, 107, .   | 1.5 | 5         |
| 110 | The environment topography alters the way to multicellularity in <i>Myxococcus xanthus</i> .<br>Science Advances, 2021, 7, .  | 4.7 | 5         |
| 111 | Raman spectroscopy of a single living cell in environmentally stressed conditions. , 2005, 5930, 42.  |     | 4         |
| 112 | Biophotonics. Optics and Photonics News, 2005, 16, 18.  | 0.4 | 4         |
| 113 | Thermal noise suppression: how much does it cost?. Journal of Physics A: Mathematical and Theoretical, 2009, 42, 095005.  | 0.7 | 4         |
| 114 | Influence of rotational force fields on the determination of the work done on a driven Brownian particle. Journal of Optics (United Kingdom), 2011, 13, 044006.   | 1.0 | 4         |
| 115 | Improving epidemic testing and containment strategies using machine learning. Machine Learning:<br>Science and Technology, 2021, 2, 035007.   | 2.4 | 4         |
| 116 | Neural network training with highly incomplete medical datasets. Machine Learning: Science and Technology, 2022, 3, 035001.   | 2.4 | 4         |
| 117 | Mie scattering of a Laguerre-Gaussian beam for position detection of microbubbles. , 2008, , .  |     | 3         |
| 118 | Biophotonics feature: introduction. Biomedical Optics Express, 2018, 9, 1229.   | 1.5 | 2         |
| 119 | Enhanced prediction of atrial fibrillation and mortality among patients with congenital heart disease<br>using nationwide register-based medical hospital data and neural networks. European Heart Journal<br>Digital Health, 2021, 2, 568-575. | 0.7 | 2         |
| 120 | Intracavity optical trapping with Ytterbium doped fiber ring laser. , 2013, , .   |     | 1         |
| 121 | Engineering particle trajectories in microfluidic flows using speckle light fields. , 2014, , .   |     | 1         |
| 122 | Numerical simulation of optically trapped particles. , 2014, , .  |     | 1         |
| 123 | Photonic forcemicroscope. , 2015, , 296-318.  |     | 1         |
| 124 | Better Stability with Measurement Errors. Journal of Statistical Physics, 2016, 163, 1477-1485.   | 0.5 | 1         |
| 125 | Quantitative digital microscopy with deep learning. , 2020, , .   |     | 1         |
|     |   |     |           |

126 Total Internal Reflection Microscopy: Calibration of the Intensity-Position Relation. , 2010, , .

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| #   | Article  | IF  | CITATIONS |
|-----|--|-----|-----------|
| 127 | Optical Feedback Radiation Forces: Intracavity Optical Trapping with Feedback-locked Diode Lasers. ,<br>2012, , .  |     | 1         |
| 128 | Computational toolbox for optical tweezers in the geometrical optics regime. , 2019, , .                           |     | 1         |
| 129 | Machine learning to enhance the calculation of optical forces in the geometrical optics approximation. , 2021, , . |     | 1         |
| 130 | Optical trapping dynamics for cell identification. , 2006, , .   |     | 0         |
| 131 | Growth of single yeast cells in an optical trap monitored by Rayleigh and Raman scattering. , 2006, , .            |     | 0         |
| 132 | Photonic force microscopy with back-scattered light. , 2007, , .   |     | 0         |
| 133 | Insights into Statistical Physics by Optically Trapped Particles. , 2009, , .                                      |     | Ο         |
| 134 | Statistical physics in an optically manipulated colloidal particle. , 2010, , .                                    |     | 0         |
| 135 | Forces and torques on the nanoscale: from measurement to applications. Proceedings of SPIE, 2012, , .              | 0.8 | Ο         |
| 136 | Numerical simulation of Brownian particles in optical force fields. , 2013, , .                                    |     | 0         |
| 137 | Spatial measurement of spurious forces with optical tweezers. , 2013, , .  |     | Ο         |
| 138 | Pick it up with light! An advanced summer program for secondary school students. Proceedings of SPIE, 2014, , .    | 0.8 | 0         |
| 139 | Simulation of active Brownian particles in optical potentials. Proceedings of SPIE, 2014, , .                      | 0.8 | Ο         |
| 140 | Data acquisition and optical tweezers calibration. , 0, , 255-295.   |     | 0         |
| 141 | Advanced techniques. , 0, , 345-368.   |     | Ο         |
| 142 | Optofluidics and lab-on-a-chip. , 0, , 409-421.  |     | 0         |
| 143 | Statistical physics. , 0, , 448-461.   |     | 0         |
| 144 | Plasmonics. , 0, , 470-483.  |     | 0         |

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|-----|---|-----|-----------|
| 145 | Nanostructures. , 0, , 484-497.   |     | Ο         |
| 146 | Optical Manipulation with Random Light Fields: From Fundamental Physics to Applications. , 2015, , .                      |     | 0         |
| 147 | An Introduction to Practical Laboratory Optics, by J. F. James. Contemporary Physics, 2015, 56, 493-495.                  | 0.8 | 0         |
| 148 | Experimental investigation of critical Casimir forces in binary liquid mixtures by blinking optical tweezers. , 2017, , . |     | 0         |
| 149 | Clustering of Janus particles in an optical potential driven by hydrodynamic fluxes. , 2021, , .                          |     | 0         |
| 150 | Controlling Active Brownian Particles in Complex Settings. , 2017, , .  |     | 0         |
| 151 | Nonadditivity of critical Casimir forces. , 2017, , .   |     | 0         |
| 152 | Motion of Bio-hybrid Microswimmers in Optical Potentials. , 2017, , .   |     | 0         |
| 153 | Brownian Gyrator: An Experimental Realization. , 2017, , .  |     | 0         |
| 154 | A Critical Microscopic Engine in an Optical Tweezers. , 2018, , .   |     | 0         |
| 155 | Dynamics of optically trapped particles tuned by critical Casimir forces and torques. , 2019, , .                         |     | 0         |
| 156 | Light-driven Assembly and Optical Manipulation of Active Colloidal Molecules. , 2019, , .                                 |     | 0         |
| 157 | Statistics of Brownian particles held in non-harmonic potentials in an active bath. , 2019, , .                           |     | 0         |
| 158 | Beam Displacement due to Thermal Blooming in Optical Tweezers. , 2019, , .  |     | 0         |
| 159 | Experimental investigation of active Brownian dynamics in 3D optical potentials using light-sheet microscopy. , 2019, , . |     | 0         |
| 160 | Dynamics of an Active Nanoparticle in an Optical Trap. , 2021, , .  |     | 0         |
| 161 | FORMA and BEFORE: expanding applications of optical tweezers. , 2021, , .   |     | 0         |
| 162 | Raman Tweezers for single nanoplastic particles analysis in liquid environment. , 2021, , .                               |     | 0         |

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| 163 | Clustering of Janus particles under the effect of optical forces driven by hydrodynamic fluxes. , 2021, , |    | 0         |