

Karol Makuch

List of Publications by Year in descending order

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Version: 2024-02-01

18
papers

211
citations

1307594

7
h-index

1058476

14
g-index

20
all docs

20
docs citations

20
times ranked

303
citing authors

#	ARTICLE	IF	CITATIONS
1	Droplet-based digital antibiotic susceptibility screen reveals single-cell clonal heteroresistance in an isogenic bacterial population. <i>Scientific Reports</i> , 2020, 10, 3282.	3.3	54
2	Gravity-driven microfluidic assay for digital enumeration of bacteria and for antibiotic susceptibility testing. <i>Lab on A Chip</i> , 2020, 20, 54-63.	6.0	35
3	Diffusion and flow in complex liquids. <i>Soft Matter</i> , 2020, 16, 114-124.	2.7	20
4	Passive and parallel microfluidic formation of droplet interface bilayers (DIBs) for measurement of leakage of small molecules through artificial phospholipid membranes. <i>Sensors and Actuators B: Chemical</i> , 2019, 286, 258-265.	7.8	19
5	Grooved step emulsification systems optimize the throughput of passive generation of monodisperse emulsions. <i>Lab on A Chip</i> , 2019, 19, 1183-1192.	6.0	17
6	High-Throughput Monitoring of Bacterial Cell Density in Nanoliter Droplets: Label-Free Detection of Unmodified Gram-Positive and Gram-Negative Bacteria. <i>Analytical Chemistry</i> , 2021, 93, 843-850.	6.5	15
7	Transport properties of suspensions – critical assessment of Beenakker-Mazur method. <i>Journal of Chemical Physics</i> , 2012, 137, 184902.	3.0	11
8	Split or slip – passive generation of monodisperse double emulsions with cores of varying viscosity in microfluidic tandem step emulsification system. <i>RSC Advances</i> , 2020, 10, 23058-23065.	3.6	9
9	Rotational self-diffusion in suspensions of charged particles: simulations and revised Beenakker – Mazur and pairwise additivity methods. <i>Soft Matter</i> , 2015, 11, 5313-5326.	2.7	6
10	Continuous nonequilibrium transition driven by heat flow. <i>Physical Review E</i> , 2021, 104, 024102.	2.1	5
11	Scattering series in the mobility problem for suspensions. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2012, 2012, P11016.	2.3	3
12	Thermodynamic properties of correlated fermions in lattices with spin-dependent disorder. <i>New Journal of Physics</i> , 2013, 15, 045031.	2.9	3
13	Non-wetting droplets in capillaries of circular cross-section: Scaling function. <i>Physics of Fluids</i> , 2019, 31, 043102.	4.0	3
14	Real-space dynamical mean-field theory of Friedel oscillations in strongly correlated electron systems. <i>Physical Review B</i> , 2019, 100, .	3.2	3
15	Transient dynamics in the outflow of energy from a system in a nonequilibrium stationary state. <i>Physical Review E</i> , 2022, 105, .	2.1	3
16	Generalization of Clausius-Mossotti approximation in application to short-time transport properties of suspensions. <i>Physical Review E</i> , 2015, 92, 042317.	2.1	1
17	Multipole Matrix of Green Function of Laplace Equation. <i>Acta Physica Polonica B</i> , 2015, 46, 1487.	0.8	1
18	Internal energy in compressible Poiseuille flow. <i>Physical Review E</i> , 2021, 104, 055107.	2.1	1