Giovanniantonio Natale

List of Publications by Year
in descending order

31 papers	537 citations	687363 13 h-index	642732 23 g-index
32 all docs	32 docs citations	32 times ranked	523 citing authors

#	Article	IF	Citations
1	Self-healing, stretchable, and highly adhesive hydrogels for epidermal patch electrodes. Acta Biomaterialia, 2022, 139, 296-306.	8.3	63
2	Synergistic gelation of gelatin B with xanthan gum. Food Hydrocolloids, 2016, 60, 374-383.	10.7	59
3	An active particle in a complex fluid. Journal of Fluid Mechanics, 2017, 823, 675-688.	3.4	47
4	A review on novel applications of asphaltenes: A valuable waste. Fuel, 2021, 285, 119272.	6.4	45
5	Ionic liquidâ€“water mixtures and ion gels as electrolytes for organic electrochemical transistors. Journal of Materials Chemistry C, 2015, 3, 6549-6553.	5.5	29
6	Diffusiophoresis of active colloids in viscoelastic media. Soft Matter, 2019, 15, 9909-9919.	2.7	29
7	Transformation of petroleum asphaltenes to carbon fibers. Carbon, 2022, 190, 92-103.	10.3	28
8	Large amplitude oscillatory shear flow: Microstructural assessment of polymeric systems. Progress in Polymer Science, 2022, 132, 101580.	24.7	27
9	Tunable metacrylated hyaluronic acid-based hybrid bioinks for stereolithography 3D bioprinting. Biofabrication, 2021, 13, 044109.	7.1	26
10	2D and 3D Metalâ€“Organic Framework at the Oil/Water Interface: A Case Study of Copper Benzenedicarboxylate. Advanced Materials Interfaces, 2019, 6, 1801139.	3.7	25
11	Rheological modeling of carbon nanotube suspensions with rodâ€“rod interactions. AICHE Journal, 2014, 60, 1476-1487.	3.6	24
12	Autophoretic locomotion in weakly viscoelastic fluids at finite PÃ©clet number. Physics of Fluids, 2017, 29, .	4.0	23
13	Rheo-optical Analysis of Functionalized Graphene Suspensions. Langmuir, 2018, 34, 7844-7851.	3.5	16
14	Effects of synthesis-solvent polarity on the physicochemical and rheological properties of poly(N-isopropylacrylamide) (PNIPAm) hydrogels. Journal of Materials Research and Technology, 2021, 13, 769-786.	5.8	14
15	Orientation dynamics of dilute functionalized graphene suspensions in oscillatory flow. Physical Review Fluids, 2018, 3, .	2.5	10
16	Anisotropy and Nanomechanics of Cellulose Nanocrystals/Polyethylene Glycol Composite Films. Biomacromolecules, 2022, 23, 1592-1600.	5.4	10
17	Modeling particle population balances in fluidized-bed wood gasifiers. Biomass and Bioenergy, 2014, 62, 123-137.	5.7	9
18	Scalable Chemical Synthesis Route to Manufacture pH-Responsive Janus CaCO₃ Micromotors. Langmuir, 2020, 36, 12590-12600.	3.5	9

#	Article	IF	Citations
19	Settling dynamics of two spheres in a suspension of Brownian rods. Physics of Fluids, 2019, 31, 073104.	4.0	8
20	Dynamics of Brownian Janus rods at a liquidâ€“liquid interface. Physics of Fluids, 2022, 34, .	4.0	7
21	A greener route for smart PNIPAm microgel synthesis using a bio-based synthesis-solvent. European Polymer Journal, 2022, 174, 111311.	5.4	6
22	Numerical evaluation of a single ellipsoid motion in Newtonian and power-law fluids. AIP Conference Proceedings, 2018, , .	0.4	4
23	Thermocapillary motion of a solid cylinder near a liquidâ€“gas interface. Physics of Fluids, 2020, 32, 127109.	4.0	3
24	Superparamagnetic SiO2@Fe3O4 core/shell fabrication via low-temperature electroless deposition. Materials Chemistry and Physics, 2022, 277, 125443.	4.0	3
25	Interfacial microrheology: characteristics of homogeneous and heterogeneous interfaces. Rheologica Acta, 2022, 61, 733-744.	2.4	3
26	CFD based analysis of 3D printed nasopharyngeal swabs for COVID-19 diagnostics. Computer Methods and Programs in Biomedicine, 2022, 223, 106977.	4.7	3
27	Oscillatory Shear Response of the Rigid Rod Model: Microstructural Evolution. Macromolecules, 2019, 52, 4907-4915.	4.8	2
28	Sedimentation behavior of a spherical particle in a Giesekus fluid: A CFDâ€“DEM solution. Journal of Non-Newtonian Fluid Mechanics, 2021, 291, 104465.	2.4	2
29	Spontaneous chiralization of polar active particles. Physical Review E, 2021, 104, 044607.	2.1	2
30	Metal-Organic Frameworks: 2D and 3D Metal-Organic Framework at the Oil/Water Interface: A Case Study of Copper Benzenedicarboxylate (Adv. Mater. Interfaces 2/2019). Advanced Materials Interfaces, 2019, 6, 1970015.	3.7	0
31	Deterministic particle assembly on nanophotonic chips. Journal of Colloid and Interface Science, 2021, 603, 259-269.	9.4	0