

David Seveno

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3222201/publications.pdf>

Version: 2024-02-01

72
papers

2,060
citations

218677

26
h-index

276875

41
g-index

74
all docs

74
docs citations

74
times ranked

1969
citing authors

#	ARTICLE	IF	CITATIONS
1	A Molecular Dynamics Simulation of Capillary Imbibition. <i>Langmuir</i> , 2002, 18, 7971-7976.	3.5	180
2	Carbon and carbon composites for thermoelectric applications. , 2020, 2, 408-436.		141
3	Dynamics of Wetting Revisited. <i>Langmuir</i> , 2009, 25, 13034-13044.	3.5	90
4	Young's Equation at the Nanoscale. <i>Physical Review Letters</i> , 2013, 111, 096101.	7.8	80
5	Wettability of a Single Carbon Fiber. <i>Langmuir</i> , 2016, 32, 9697-9705.	3.5	73
6	Wettability and Interfacial Properties of Carbon Fiber and Poly(ether ether ketone) Fiber Hybrid Composite. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 31520-31531.	8.0	69
7	Experimental Evidence of the Role of Viscosity in the Molecular Kinetic Theory of Dynamic Wetting. <i>Langmuir</i> , 2011, 27, 13015-13021.	3.5	68
8	Synergistically Boosting Thermoelectric Performance of PEDOT:PSS/SWCNT Composites <i>via</i> the Ion-Exchange Effect and Promoting SWCNT Dispersion by the Ionic Liquid. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 12131-12140.	8.0	65
9	Experimental Investigation of the Link between Static and Dynamic Wetting by Forced Wetting of Nylon Filament. <i>Langmuir</i> , 2007, 23, 10628-10634.	3.5	61
10	The possibility of different time scales in the dynamics of pore imbibition. <i>Journal of Colloid and Interface Science</i> , 2004, 270, 171-179.	9.4	57
11	Superhydrophobic Surfaces from Various Polypropylenes. <i>Langmuir</i> , 2008, 24, 9508-9514.	3.5	50
12	Elastic aerogel thermoelectric generator with vertical temperature-difference architecture and compression-induced power enhancement. <i>Nano Energy</i> , 2021, 90, 106577.	16.0	50
13	Mechanically Robust and Flexible Films of Ionic Liquid-Modulated Polymer Thermoelectric Composites. <i>Advanced Functional Materials</i> , 2021, 31, 2104836.	14.9	48
14	Wettability of carbon nanotube fibers. <i>Carbon</i> , 2017, 122, 128-140.	10.3	45
15	Superhydrophobic Aluminum Surfaces by Deposition of Micelles of Fluorinated Block Copolymers. <i>Langmuir</i> , 2010, 26, 2057-2067.	3.5	42
16	Nonreactive spreading at high temperature: Molten metals and oxides on molybdenum. <i>Physical Review E</i> , 2007, 76, 041602.	2.1	41
17	Cellulose-hemicellulose interactions - A nanoscale view. <i>Carbohydrate Polymers</i> , 2021, 270, 118364.	10.2	41
18	Predicting the Wetting Dynamics of a Two-Liquid System. <i>Langmuir</i> , 2011, 27, 14958-14967.	3.5	40

#	ARTICLE	IF	CITATIONS
19	Drop Impact on Soft Surfaces: Beyond the Static Contact Angles. Langmuir, 2010, 26, 4873-4879.	3.5	38
20	Wettability of carbon fibres at micro- and mesoscales. Carbon, 2017, 120, 438-446.	10.3	37
21	A novel method for producing solid polymer microneedles using laser ablated moulds in an injection moulding process. Manufacturing Letters, 2020, 24, 29-32.	2.2	37
22	Spreading Drop Dynamics on Porous Surfaces. Langmuir, 2002, 18, 7496-7502.	3.5	35
23	Wetting and swelling property modifications of elementary flax fibres and their effects on the Liquid Composite Molding process. Composites Part A: Applied Science and Manufacturing, 2017, 97, 31-40.	7.6	34
24	Spreading Dynamics of Molten Polymer Drops on Glass Substrates. Langmuir, 2017, 33, 8447-8454.	3.5	33
25	Liquid Coating of Moving Fiber at the Nanoscale. Langmuir, 2004, 20, 8385-8390.	3.5	32
26	Can We Predict the Spreading of a Two-Liquid System from the Spreading of the Corresponding Liquid-Air Systems?. Langmuir, 2011, 27, 9866-9872.	3.5	30
27	Dynamics of the Rise around a Fiber: Experimental Evidence of the Existence of Several Time Scales. Langmuir, 2005, 21, 9584-9590.	3.5	27
28	Flexible and Foldable Films of SWCNT Thermoelectric Composites and an S-Shape Thermoelectric Generator with a Vertical Temperature Gradient. ACS Applied Materials & Interfaces, 2022, 14, 5973-5982.	8.0	26
29	Optimized synthesis of ambient pressure dried thermal insulating silica aerogel powder from non-ion exchanged water glass. Journal of Non-Crystalline Solids, 2018, 499, 217-226.	3.1	24
30	Unraveling the nano-structure of a glassy CaO-FeO-SiO ₂ slag by molecular dynamics simulations. Journal of Non-Crystalline Solids, 2020, 528, 119771.	3.1	23
31	Carbon Nanotube Fibers Decorated with MnO ₂ for Wire-Shaped Supercapacitor. Molecules, 2021, 26, 3479.	3.8	23
32	Possibility of Different Time Scales in the Capillary Rise around a Fiber. Langmuir, 2004, 20, 737-742.	3.5	22
33	Toward improved trade-off between thermoelectric and mechanical performances in polycarbonate/single-walled carbon nanotube composite films. Npj Flexible Electronics, 2020, 4, .	10.7	22
34	Weakening effect of nickel catalyst particles on the mechanical strength of the carbon nanotube/carbon fiber junction. Carbon, 2017, 115, 589-599.	10.3	21
35	Preparation of poly(butylene adipate-co-terephthalate)/ZnSnO ₃ composites with enhanced antimicrobial activity. Composites Communications, 2020, 22, 100469.	6.3	21
36	Interdiffusion of thermoplastics and epoxy resin precursors: investigations using experimental and molecular dynamics methods. Polymer International, 2012, 61, 1263-1271.	3.1	19

#	ARTICLE	IF	CITATIONS
37	Wetting behaviour of Cu based alloys on spinel substrates in pyrometallurgical context. <i>Materials Science and Technology</i> , 2015, 31, 1925-1933.	1.6	18
38	Wetting Dynamics of Drop Spreading. New Evidence for the Microscopic Validity of the Molecular-Kinetic Theory. <i>Langmuir</i> , 2010, 26, 14642-14647.	3.5	17
39	Predicting the adhesion strength of thermoplastic/glass interfaces from wetting measurements. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2018, 558, 280-290.	4.7	17
40	Tensile behaviour of dislocated/crystalline cellulose fibrils at the nano scale. <i>Carbohydrate Polymers</i> , 2020, 235, 115946.	10.2	16
41	Wetting dynamics of polydimethylsiloxane mixtures on a poly(ethylene terephthalate) fiber. <i>Journal of Colloid and Interface Science</i> , 2018, 525, 243-250.	9.4	15
42	Recrystallization and size distribution of dislocated segments in cellulose microfibrils—a molecular dynamics perspective. <i>Cellulose</i> , 2021, 28, 6007.	4.9	15
43	Do Nickel and Iron catalyst nanoparticles affect the mechanical strength of carbon nanotubes?. <i>Extreme Mechanics Letters</i> , 2018, 20, 29-37.	4.1	14
44	Wetting dynamics and surface energy components of single carbon fibers. <i>Journal of Colloid and Interface Science</i> , 2019, 557, 349-356.	9.4	14
45	Decoupling the trade-off between thermoelectric and mechanical performances for polymer composites via interfacial regulation. <i>Composites Science and Technology</i> , 2022, 222, 109373.	7.8	14
46	Wetting measurements as a tool to predict the thermoplastic/thermoset rubber compatibility in two-component injection molding. <i>Journal of Applied Polymer Science</i> , 2018, 135, 46046.	2.6	13
47	Capillary rise of polydimethylsiloxane around a poly(ethylene terephthalate) fiber versus viscosity: Existence of a sharp transition in the dynamic wetting behavior. <i>Journal of Colloid and Interface Science</i> , 2019, 536, 499-506.	9.4	13
48	Wettability of carbon nanotube-grafted carbon fibers and their interfacial properties in polypropylene thermoplastic composite. <i>Composites Part A: Applied Science and Manufacturing</i> , 2022, 159, 106993.	7.6	13
49	Inverse rule of mixtures at the nanoscale: Prediction of elastic properties of cellulose nanofibrils. <i>Composites Part A: Applied Science and Manufacturing</i> , 2020, 138, 106046.	7.6	12
50	Multi-phase field simulation of Al ₃ Ni intermetallic growth at the nanoscale. <i>Journal of Applied Polymer Science</i> , 2021, 164, 48006.	6.7	12
51	Comparative study of a cubic, Kelvin and Weaire-Phelan unit cell for the prediction of the thermal conductivity of low density silica aerogels. <i>Microporous and Mesoporous Materials</i> , 2020, 301, 110206.	4.4	11
52	Does Thermal Percolation Exist in Graphene-Reinforced Polymer Composites? A Molecular Dynamics Answer. <i>Journal of Physical Chemistry C</i> , 2021, 125, 1018-1028.	3.1	10
53	Controlling the geometry of laser ablated microneedle cavities in different mould materials and assessing the replication fidelity within polymer injection moulding. <i>Journal of Manufacturing Processes</i> , 2021, 62, 535-545.	5.9	10
54	Producing Hollow Polymer Microneedles Using Laser Ablated Molds in an Injection Molding Process. <i>Journal of Micro and Nano-Manufacturing</i> , 2021, 9, .	0.7	8

#	ARTICLE	IF	CITATIONS
55	Contact line stick-slip motion and meniscus evolution on micrometer-size wavy fibres. <i>Journal of Colloid and Interface Science</i> , 2019, 540, 544-553.	9.4	7
56	Self-Assembly of Hybrid Nanorods for Enhanced Volumetric Performance of Nanoparticles in Li-Ion Batteries. <i>Nano Letters</i> , 2019, 19, 228-234.	9.1	7
57	Effect of coagents on adhesion between peroxide cured ethylene-propylene diene monomer and thermoplastics in two-component injection molding. <i>Journal of Applied Polymer Science</i> , 2020, 137, 48414.	2.6	7
58	Surface tension of aluminum-oxygen system: A molecular dynamics study. <i>Acta Materialia</i> , 2021, 221, 117430.	7.9	7
59	Molecular Dynamics Simulations of Polyamide-6 Composite with Covalently Bonded Graphene Network for Thermal Conductivity Enhancement. <i>ACS Applied Nano Materials</i> , 2021, 4, 10799-10809.	5.0	6
60	Study of the interfacial reactions controlling the spreading of Al on Ni. <i>Applied Surface Science</i> , 2022, 571, 151272.	6.1	6
61	Reactive wetting of polyethylene on ethylene-propylene-diene terpolymer. <i>Colloids and Interface Science Communications</i> , 2021, 40, 100343.	4.1	5
62	Multiscale modeling and maximizing the thermal conductivity of Polyamide-6 reinforced by highly entangled graphene flakes. <i>Composites Part A: Applied Science and Manufacturing</i> , 2021, 151, 106632.	7.6	5
63	Adhesion between ethylene-propylene diene monomer and thermoplastics in two-component injection molding: Effect of dicumylperoxide as curing agent. <i>Journal of Applied Polymer Science</i> , 2020, 137, 49233.	2.6	4
64	Cellulose Nanocrystals: Tensile Strength and Failure Mechanisms Revealed Using Reactive Molecular Dynamics. <i>Biomacromolecules</i> , 2022, 23, 2243-2254.	5.4	4
65	Predicting the replication fidelity of injection molded solid polymer microneedles. <i>International Polymer Processing</i> , 2022, .	0.5	3
66	First steps in composite materials for schoolchildren: A STEM educational project. <i>Composites Part A: Applied Science and Manufacturing</i> , 2018, 109, 298-302.	7.6	2
67	Numerical mesh generation tool for thermal conductivity simulations of nanoparticle filled inorganic plates. <i>Polymer Engineering and Science</i> , 2018, 58, 568-585.	3.1	2
68	Flexible films of tourmaline thermoelectric composite via acid treatment and embedding single-walled carbon nanotubes. <i>Composites Communications</i> , 2022, 34, 101240.	6.3	2
69	Microfluidics and wetting. , 2003, , 1128-1130.		0
70	Using a Lubrication Test Bench for Testing New Oil Quality Sensors. , 2013, , .		0
71	Thermal modelling of normal distributed nanoparticles through thickness in an inorganic material matrix. <i>AIP Conference Proceedings</i> , 2017, , .	0.4	0
72	Wettability assisted selective deposition of polystyrene nanoparticles on glass fibers. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2018, 555, 440-447.	4.7	0