

# David Seveno

## List of Publications by Year in descending order

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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	Study of the interfacial reactions controlling the spreading of Al on Ni. Applied Surface Science, 2022, 571, 151272.	6.1	6
2	Multi-phase field simulation of Al $\text{Ni}$ intermetallic growth at 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.	6.7	12
3	Decoupling the trade-off between thermoelectric and mechanical performances for polymer composites via interfacial regulation. Composites Science and Technology, 2022, 222, 109373.	8.0	26
4	Predicting the replication fidelity of injection molded solid polymer microneedles. International Polymer Processing, 2022, .	7.8	14
5	Cellulose Nanocrystals: Tensile Strength and Failure Mechanisms Revealed Using Reactive Molecular Dynamics. Biomacromolecules, 2022, 23, 2243-2254.	0.5	3
6	Wettability of carbon nanotube-grafted carbon fibers and their interfacial properties in polypropylene thermoplastic composite. Composites Part A: Applied Science and Manufacturing, 2022, 159, 106993.	5.4	4
7	Flexible films of tourmaline thermoelectric composite via acid treatment and embedding single-walled carbon nanotubes. Composites Communications, 2022, 34, 101240.	7.6	13
8	Flexible films of tourmaline thermoelectric composite via acid treatment and embedding single-walled carbon nanotubes. Composites Communications, 2022, 34, 101240.	6.3	2
9	Reactive wetting of polyethylene on ethylene-propylene-diene terpolymer. Colloids and Interface Science Communications, 2021, 40, 100343.	4.1	5
10	Does Thermal Percolation Exist in Graphene-Reinforced Polymer Composites? A Molecular Dynamics Answer. Journal of Physical Chemistry C, 2021, 125, 1018-1028.	3.1	10
11	Controlling the geometry of laser ablated microneedle cavities in different mould materials and assessing the replication fidelity within polymer injection moulding. Journal of Manufacturing Processes, 2021, 62, 535-545.	5.9	10
12	Synergistically Boosting Thermoelectric Performance of PEDOT:PSS/SWCNT Composites via the Ion-Exchange Effect and Promoting SWCNT Dispersion by the Ionic Liquid. ACS Applied Materials & Interfaces, 2021, 13, 12131-12140.	8.0	65
13	Recrystallization and size distribution of dislocated segments in cellulose microfibrils—a molecular dynamics perspective. Cellulose, 2021, 28, 6007.	4.9	15
14	Carbon Nanotube Fibers Decorated with MnO <sub>2</sub> for Wire-Shaped Supercapacitor. Molecules, 2021, 26, 3479.	3.8	23
15	Producing Hollow Polymer Microneedles Using Laser Ablated Molds in an Injection Molding Process. Journal of Micro and Nano-Manufacturing, 2021, 9, .	0.7	8
16	Mechanically Robust and Flexible Films of Ionic Liquid-Modulated Polymer Thermoelectric Composites. Advanced Functional Materials, 2021, 31, 2104836.	14.9	48
17	Molecular Dynamics Simulations of Polyamide-6 Composite with Covalently Bonded Graphene Network for Thermal Conductivity Enhancement. ACS Applied Nano Materials, 2021, 4, 10799-10809.	5.0	6
18	Elastic aerogel thermoelectric generator with vertical temperature-difference architecture and compression-induced power enhancement. Nano Energy, 2021, 90, 106577.	16.0	50

#	ARTICLE	IF	CITATIONS
19	Cellulose-hemicellulose interactions - A nanoscale view. Carbohydrate Polymers, 2021, 270, 118364.	10.2	41
20	Multiscale modeling and maximizing the thermal conductivity of Polyamide-6 reinforced by highly entangled graphene flakes. Composites Part A: Applied Science and Manufacturing, 2021, 151, 106632.	7.6	5
21	Surface tension of aluminum-oxygen system: A molecular dynamics study. Acta Materialia, 2021, 221, 117430.	7.9	7
22	Effect of coagents on adhesion between peroxide cured ethylene-propylene diene monomer and thermoplastics in two-component injection molding. Journal of Applied Polymer Science, 2020, 137, 48414.	2.6	7
23	Unraveling the nano-structure of a glassy CaO-FeO-SiO <sub>2</sub> slag by molecular dynamics simulations. Journal of Non-Crystalline Solids, 2020, 528, 119771.	3.1	23
24	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
25	Preparation of poly(butylene adipate-co-terephthalate)/ZnSnO <sub>3</sub> composites with enhanced antimicrobial activity. Composites Communications, 2020, 22, 100469.	6.3	21
26	Carbon and carbon composites for thermoelectric applications. , 2020, 2, 408-436.		141
27	Inverse rule of mixtures at the nanoscale: Prediction of elastic properties of cellulose nanofibrils. Composites Part A: Applied Science and Manufacturing, 2020, 138, 106046.	7.6	12
28	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
29	Tensile behaviour of dislocated/crystalline cellulose fibrils at the nano scale. Carbohydrate Polymers, 2020, 235, 115946.	10.2	16
30	Comparative study of a cubic, Kelvin and Weaire-Phelan unit cell for the prediction of the thermal conductivity of low density silica aerogels. Microporous and Mesoporous Materials, 2020, 301, 110206.	4.4	11
31	Adhesion between ethylene-propylene diene monomer and thermoplastics in two-component injection molding: Effect of dicumylperoxide as curing agent. Journal of Applied Polymer Science, 2020, 137, 49233.	2.6	4
32	Wettability and Interfacial Properties of Carbon Fiber and Poly(ether ether ketone) Fiber Hybrid Composite. ACS Applied Materials & Interfaces, 2019, 11, 31520-31531.	8.0	69
33	Wetting dynamics and surface energy components of single carbon fibers. Journal of Colloid and Interface Science, 2019, 557, 349-356.	9.4	14
34	Contact line stick-slip motion and meniscus evolution on micrometer-size wavy fibres. Journal of Colloid and Interface Science, 2019, 540, 544-553.	9.4	7
35	Capillary rise of polydimethylsiloxane around a poly(ethylene terephthalate) fiber versus viscosity: Existence of a sharp transition in the dynamic wetting behavior. Journal of Colloid and Interface Science, 2019, 536, 499-506.	9.4	13
36	Self-Assembly of Hybrid Nanorods for Enhanced Volumetric Performance of Nanoparticles in Li-Ion Batteries. Nano Letters, 2019, 19, 228-234.	9.1	7

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37	Do Nickel and Iron catalyst nanoparticles affect the mechanical strength of carbon nanotubes?. Extreme Mechanics Letters, 2018, 20, 29-37.	4.1	14
38	First steps in composite materials for schoolchildren: A STEM educational project. Composites Part A: Applied Science and Manufacturing, 2018, 109, 298-302.	7.6	2
39	Wetting measurements as a tool to predict the thermoplastic/thermoset rubber compatibility in two-component injection molding. Journal of Applied Polymer Science, 2018, 135, 46046.	2.6	13
40	Predicting the adhesion strength of thermoplastic/glass interfaces from wetting measurements. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2018, 558, 280-290.	4.7	17
41	Wettability assisted selective deposition of polystyrene nanoparticles on glass fibers. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2018, 555, 440-447.	4.7	0
42	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
43	Wetting dynamics of polydimethylsiloxane mixtures on a poly(ethylene terephthalate) fiber. Journal of Colloid and Interface Science, 2018, 525, 243-250.	9.4	15
44	Numerical mesh generation tool for thermal conductivity simulations of nanoparticle filled inorganic plates. Polymer Engineering and Science, 2018, 58, 568-585.	3.1	2
45	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
46	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
47	Wettability of carbon nanotube fibers. Carbon, 2017, 122, 128-140.	10.3	45
48	Wettability of carbon fibres at micro- and mesoscales. Carbon, 2017, 120, 438-446.	10.3	37
49	Spreading Dynamics of Molten Polymer Drops on Glass Substrates. Langmuir, 2017, 33, 8447-8454.	3.5	33
50	Thermal modelling of normal distributed nanoparticles through thickness in an inorganic material matrix. AIP Conference Proceedings, 2017, , .	0.4	0
51	Wettability of a Single Carbon Fiber. Langmuir, 2016, 32, 9697-9705.	3.5	73
52	Wetting behaviour of Cu based alloys on spinel substrates in pyrometallurgical context. Materials Science and Technology, 2015, 31, 1925-1933.	1.6	18
53	Young's Equation at the Nanoscale. Physical Review Letters, 2013, 111, 096101.	7.8	80
54	Using a Lubrication Test Bench for Testing New Oil Quality Sensors. , 2013, , .		0

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55	Interdiffusion of thermoplastics and epoxy resin precursors: investigations using experimental and molecular dynamics methods. <i>Polymer International</i> , 2012, 61, 1263-1271.	3.1	19
56	Can We Predict the Spreading of a Two-Liquid System from the Spreading of the Corresponding Liquid–Air Systems?. <i>Langmuir</i> , 2011, 27, 9866-9872.	3.5	30
57	Predicting the Wetting Dynamics of a Two-Liquid System. <i>Langmuir</i> , 2011, 27, 14958-14967.	3.5	40
58	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
59	Drop Impact on Soft Surfaces: Beyond the Static Contact Angles. <i>Langmuir</i> , 2010, 26, 4873-4879.	3.5	38
60	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
61	Superhydrophobic Aluminum Surfaces by Deposition of Micelles of Fluorinated Block Copolymers. <i>Langmuir</i> , 2010, 26, 2057-2067.	3.5	42
62	Dynamics of Wetting Revisited. <i>Langmuir</i> , 2009, 25, 13034-13044.	3.5	90
63	Superhydrophobic Surfaces from Various Polypropylenes. <i>Langmuir</i> , 2008, 24, 9508-9514.	3.5	50
64	Nonreactive spreading at high temperature: Molten metals and oxides on molybdenum. <i>Physical Review E</i> , 2007, 76, 041602.	2.1	41
65	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
66	Dynamics of the Rise around a Fiber: Experimental Evidence of the Existence of Several Time Scales. <i>Langmuir</i> , 2005, 21, 9584-9590.	3.5	27
67	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
68	Possibility of Different Time Scales in the Capillary Rise around a Fiber. <i>Langmuir</i> , 2004, 20, 737-742.	3.5	22
69	Liquid Coating of Moving Fiber at the Nanoscale. <i>Langmuir</i> , 2004, 20, 8385-8390.	3.5	32
70	Microfluidics and wetting. , 2003, , 1128-1130.		0
71	Spreading Drop Dynamics on Porous Surfaces. <i>Langmuir</i> , 2002, 18, 7496-7502.	3.5	35
72	A Molecular Dynamics Simulation of Capillary Imbibition. <i>Langmuir</i> , 2002, 18, 7971-7976.	3.5	180