

David J Neivandt

List of Publications by Year in descending order

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Version: 2024-02-01

20
papers

1,139
citations

687363

13
h-index

752698

20
g-index

21
all docs

21
docs citations

21
times ranked

1059
citing authors

#	ARTICLE	IF	CITATIONS
1	Implementing the Theory of Sum Frequency Generation Vibrational Spectroscopy: A Tutorial Review. <i>Applied Spectroscopy Reviews</i> , 2005, 40, 103-145.	6.7	679
2	Interference Effects in Sum Frequency Vibrational Spectra of Thin Polymer Films: An Experimental and Modeling Investigation. <i>Journal of Physical Chemistry B</i> , 2004, 108, 16030-16039.	2.6	66
3	Interference Effects in Sum Frequency Spectra from Monolayers on Composite Dielectric/Metal Substrates. <i>Journal of Physical Chemistry B</i> , 2002, 106, 5461-5469.	2.6	58
4	Review on Nonconventional Fibrillation Methods of Producing Cellulose Nanofibrils and Their Applications. <i>Biomacromolecules</i> , 2021, 22, 4037-4059.	5.4	45
5	Towards industrial-scale production of cellulose nanocomposites using melt processing: A critical review on structure-processing-property relationships. <i>Composites Part B: Engineering</i> , 2020, 201, 108297.	12.0	41
6	Adsorption of Sodium Dodecyl Sulfate in the Presence of Poly(ethylenimine) and Sodium Chloride Studied Using Sum Frequency Vibrational Spectroscopy. <i>Langmuir</i> , 2001, 17, 7306-7312.	3.5	32
7	Study of the Coadsorption of an Anionic Surfactant and an Uncharged Polymer at the Aqueous Solution/Hydrophobic Surface Interface by Sum Frequency Spectroscopy. <i>Langmuir</i> , 2003, 19, 7386-7391.	3.5	29
8	Characterizing the mechanism of improved adhesion of modified wood plastic composite (WPC) surfaces. <i>Journal of Adhesion Science and Technology</i> , 2007, 21, 1097-1116.	2.6	28
9	Enhanced Sum Frequency Generation from a Monolayer Adsorbed on a Composite Dielectric/Metal Substrate. <i>Journal of Physical Chemistry B</i> , 2002, 106, 10693-10700.	2.6	27
10	Temperature and pH Effects on the Coadsorption of Sodium Dodecyl Sulfate and Poly(ethylenimine). <i>Langmuir</i> , 2002, 18, 2199-2204.	3.5	25
11	Pretreatment of lignocellulosic feedstocks for cellulose nanofibril production. <i>Cellulose</i> , 2022, 29, 4835-4876.	4.9	22
12	Sum Frequency Spectroscopy of Langmuir-Blodgett Fatty Acid Films on Hydrophobic Gold. <i>Journal of Physical Chemistry B</i> , 2004, 108, 1396-1404.	2.6	21
13	Forced Air Plasma Treatment (FAPT) of Hybrid Wood Plastic Composite (WPC)-Fiber Reinforced Plastic (FRP) Surfaces. <i>Composite Interfaces</i> , 2009, 16, 847-867.	2.3	19
14	Comparison of Actin- and Glass-Supported Phospholipid Bilayer Diffusion Coefficients. <i>Biophysical Journal</i> , 2015, 108, 1946-1953.	0.5	14
15	The mechanism of alkyl ketene dimer (AKD) sizing on cellulose model films studied by sum frequency generation vibrational spectroscopy. <i>Cellulose</i> , 2019, 26, 3415-3435.	4.9	13
16	Understanding the Affinity between Components of Wood-Plastic Composites from a Surface Energy Perspective. <i>Journal of Adhesion Science and Technology</i> , 2011, 25, 1785-1801.	2.6	10
17	Interference Effects in Femtosecond Sum Frequency Spectra of Model Cellulose Films. <i>Journal of Physical Chemistry C</i> , 2016, 120, 17296-17307.	3.1	3
18	Finite element analysis of glucose diffusivity in cellulose nanofibril peripheral nerve conduits. <i>Cellulose</i> , 2021, 28, 2791-2803.	4.9	3

#	ARTICLE	IF	CITATIONS
19	A Lateral-Field-Excited Acoustic Wave Peroxide Based Explosive Sensor. IEEE Sensors Journal, 2013, 13, 4780-4785.	4.7	2
20	COMSOL Multiphysics® modelling of oxygen diffusion through a cellulose nanofibril conduit employed for peripheral nerve repair. BioMedical Engineering OnLine, 2021, 20, 60.	2.7	1