Vi Khanh Truong

List of Publications by Year
in descending order

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137 papers	8,565 citations	71004 43 h-index	53065 89 g-index
138 all docs	138 docs citations	138 times ranked	9442 citing authors

#	Article	IF	Citations
1	Probing Nanoscale Interactions of Antimicrobial Zinc Oxide Quantum Dots on Bacterial and Fungal Cell Surfaces. Advanced Materials Interfaces, 2022, 9, .	1.9	11
2	Fabrication of superhydrophobic polyvinylidene fluoride-co-hexafluoropropylene films enabled by nanoimprint lithography. Materials Letters, 2022, 311, 131555.	1.3	2
3	Illuminating the biochemical interaction of antimicrobial few-layer black phosphorus with microbial cells using synchrotron macro-ATR-FTIR. Journal of Materials Chemistry B, 2022, 10, 7527-7539.	2.9	8
4	Interactions between Liquid Metal Droplets and Bacterial, Fungal, and Mammalian Cells. Advanced Materials Interfaces, 2022, 9, .	1.9	19
5	Carbon Dot Therapeutic Platforms: Administration, Distribution, Metabolism, Excretion, Toxicity, and Therapeutic Potential. Small, 2022, 18, e2106342.	5.2	75
6	Artificial intelligence applied to healthcare and biotechnology. , 2022, , 249-257.		0
7	Tough and stretchable ionogels by in situ phase separation. Nature Materials, 2022, 21, 359-365.	13.3	246
8	Analytical Characterisation of Material Corrosion by Biofilms. Journal of Bio- and Tribo-Corrosion, 2022, 8, 1.	1.2	3
9	Strontium-doped hardystonite plasma sprayed coatings with robust antimicrobial activity. Materials Today Chemistry, 2022, 24, 100822.	1.7	6
10	Skinâ€Inspired Capacitive Stress Sensor with Large Dynamic Range via Bilayer Liquid Metal Elastomers. Advanced Materials Technologies, 2022, 7, .	3.0	23
11	Counterpropagating Gradients of Antibacterial and Antifouling Polymer Brushes. Biomacromolecules, 2022, 23, 424-430.	2.6	21
12	Liquid metal polymer composite: Flexible, conductive, biocompatible, and antimicrobial scaffold. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2022, 110, 1131-1139.	1.6	12
13	Antibacterial Longevity of a Novel Gallium Liquid Metal/Hydroxyapatite Composite Coating Fabricated by Plasma Spray. ACS Applied Materials & Interfaces, 2022, 14, 18974-18988.	4.0	24
14	A soft gripper with contamination resistance and large friction coefficient. Applied Physics A: Materials Science and Processing, 2022, 128, 1.	1.1	1
15	New nanomaterials for wastewater depollution: Methods using chemometric approaches. Separation Science and Technology, 2022, , 287-298.	0.0	1
16	Current perspectives for engineering antimicrobial nanostructured materials. Current Opinion in Biomedical Engineering, 2022, 23, 100399.	1.8	13
17	Atomically Thin Antimonyâ€Doped Indium Oxide Nanosheets for Optoelectronics. Advanced Optical Materials, 2022, 10, .	3.6	12
18	Application of Fluconazole-Loaded pH-Sensitive Lipid Nanoparticles for Enhanced Antifungal Therapy. ACS Applied Materials & Interfaces, 2022, 14, 32845-32854.	4.0	4

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19	Surface Modification of Galliumâ€Based Liquid Metals: Mechanisms and Applications in Biomedical Sensors and Soft Actuators. Advanced Intelligent Systems, 2021, 3, 2000159.	3.3	39
20	Ultrathin oxysulfide semiconductors from liquid metal: a wet chemical approach. Journal of Materials Chemistry C, 2021, 9, 11815-11826.	2.7	19
21	Inorganic nanoparticles as food additives and their influence on the human gut microbiota. Environmental Science: Nano, 2021, 8, 1500-1518.	2.2	15
22	The Multiomics Analyses of Fecal Matrix and Its Significance to Coeliac Disease Gut Profiling. International Journal of Molecular Sciences, 2021, 22, 1965.	1.8	6
23	3D Printable Electrically Conductive Hydrogel Scaffolds for Biomedical Applications: A Review. Polymers, 2021, 13, 474.	2.0	74
24	Monitoring the Bacterial Response to Antibiotic and Time Growth Using Near-infrared Spectroscopy Combined with Machine Learning. Food Analytical Methods, 2021, 14, 1394-1401.	1.3	16
25	Earthworm (Eisenia fetida) Mucus Inspired Bionic Fertilizer to Stimulate Maize (Zea mays L.) Growth. Sustainability, 2021, 13, 4299.	1.6	0
26	Broad-Spectrum Solvent-free Layered Black Phosphorus as a Rapid Action Antimicrobial. ACS Applied Materials & Interfaces, 2021, 13, 17340-17352.	4.0	24
27	Antibacterial Activity of Nanoparticles. Nanomaterials, 2021, 11, 1391.	1.9	4
28	Analysis of Pathogenic Bacterial and Yeast Biofilms Using the Combination of Synchrotron ATR-FTIR Microspectroscopy and Chemometric Approaches. Molecules, 2021, 26, 3890.	1.7	28
29	Antipathogenic properties and applications of low-dimensional materials. Nature Communications, 2021, 12, 3897.	5.8	63
30	Investigating virusâ€“host cell interactions: Comparative binding forces between hepatitis C virus-like particles and host cell receptors in 2D and 3D cell culture models. Journal of Colloid and Interface Science, 2021, 592, 371-384.	5.0	15
31	Fluorescent Magnesium Hydroxide Nanosheet Bandages with Tailored Properties for Biocompatible Antimicrobial Wound Dressings and pH Monitoring. ACS Applied Materials & Interfaces, 2021, 13, 27904-27919.	4.0	32
32	Durable Antibacterial and Antifungal Hierarchical Silver-Embedded Poly(vinylidene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 227 Td (fluoride Materials, 2021, 3, 4256-4263.	2.0	10
33	Are Contact Angle Measurements Useful for Oxide-Coated Liquid Metals?. Langmuir, 2021, 37, 10914-10923.	1.6	54
34	A Liquid Metal Mediated Metallic Coating for Antimicrobial and Antiviral Fabrics. Advanced Materials, 2021, 33, e2104298.	11.1	84
35	Designing superhydrophobic robotic surfaces: Self-cleaning, high-grip impact, and bacterial repelling. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2021, 629, 127444.	2.3	5
36	Microplastic adulteration in homogenized fish and seafood - a mid-infrared and machine learning proof of concept. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2021, 260, 119985.	2.0	8

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37	Antifungal versus antibacterial defence of insect wings. Journal of Colloid and Interface Science, 2021, 603, 886-897.	5.0	27
38	A highâ€throughput and machine learning resistance monitoring system to determine the point of resistance for Escherichia coli with tetracycline: Combining UVâ€visible spectrophotometry with principal component analysis. Biotechnology and Bioengineering, 2021, 118, 1511-1519.	1.7	19
39	Biosensors in Food Traceability and Quality. , 2021, , 308-321.		3
40	Tunable morphological changes of asymmetric titanium nanosheets with bactericidal properties. Journal of Colloid and Interface Science, 2020, 560, 572-580.	5.0	51
41	The use of derivatives and chemometrics to interrogate the UVâ€“Visible spectra of gin samples to monitor changes related to storage. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2020, 227, 117548.	2.0	8
42	Shining light into meat â€“ a review on the recent advances in in vivo and carcass applications of near infrared spectroscopy. International Journal of Food Science and Technology, 2020, 55, 935-941.	1.3	29
43	Engineering rhizobacterial community resilience with mannose nanofibril hydrogels towards maintaining grain production under drying climate stress. Soil Biology and Biochemistry, 2020, 142, 107715.	4.2	8
44	Facile Route of Fabricating Long-Term Microbicidal Silver Nanoparticle Clusters against Shiga Toxin-Producing Escherichia coli O157:H7 and Candida auris. Coatings, 2020, 10, 28.	1.2	10
45	Antibacterial Liquid Metals: Biofilm Treatment via Magnetic Activation. ACS Nano, 2020, 14, 802-817.	7.3	198
46	Sensing the Addition of Vegetable Oils to Olive Oil: The Ability of UVâ€“VIS and MIR Spectroscopy Coupled with Chemometric Analysis. Food Analytical Methods, 2020, 13, 601-607.	1.3	21
47	Broad-spectrum treatment of bacterial biofilms using magneto-responsive liquid metal particles. Journal of Materials Chemistry B, 2020, 8, 10776-10787.	2.9	31
48	Conformationally tuned antibacterial oligomers target the peptidoglycan of Gram-positive bacteria. Journal of Colloid and Interface Science, 2020, 580, 850-862.	5.0	24
49	Assessing potential inhibitors of SARS-CoV-2 main protease from available drugs using free energy perturbation simulations. RSC Advances, 2020, 10, 40284-40290.	1.7	21
50	Micro- to nano-scale chemical and mechanical mapping of antimicrobial-resistant fungal biofilms. Nanoscale, 2020, 12, 19888-19904.	2.8	12
51	Chemometrics for environmental monitoring: a review. Analytical Methods, 2020, 12, 4597-4620.	1.3	31
52	Combining Chemometrics and Sensors: Toward New Applications in Monitoring and Environmental Analysis. Chemical Reviews, 2020, 120, 6048-6069.	23.0	68
53	Nano-plastics and their analytical characterisation and fate in the marine environment: From source to sea. Science of the Total Environment, 2020, 732, 138792.	3.9	96
54	The multi-faceted mechano-bactericidal mechanism of nanostructured surfaces. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 12598-12605.	3.3	119

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55	The use of two-dimensional spectroscopy to interpret the effect of temperature on the near infrared spectra of whisky. Journal of Near Infrared Spectroscopy, 2020, 28, 148-152.	0.8	9
56	Significant Enhancement of Antimicrobial Activity in Oxygen-Deficient Zinc Oxide Nanowires. ACS Applied Bio Materials, 2020, 3, 2997-3004.	2.3	36
57	Ultrasoft Liquid Metal Elastomer Foams with Positive and Negative Piezopermittivity for Tactile Sensing. Advanced Functional Materials, 2020, 30, 2002611.	7.8	154
58	Impact of the Astaxanthin, Betanin, and EGCG Compounds on Small Oligomers of Amyloid Aî²₄₀ Peptide. Journal of Chemical Information and Modeling, 2020, 60, 1399-1408.	2.5	17
59	Role of sensors in fruit nutrition. , 2020, , 111-119.		1
60	Antimicrobial Metal Nanomaterials: From Passive to Stimuliâ€Activated Applications. Advanced Science, 2020, 7, 1902913.	5.6	192
61	Effect of titanium surface topography on plasma deposition of antibacterial polymer coatings. Applied Surface Science, 2020, 521, 146375.	3.1	29
62	Molecular and structural basis for Lewis glycan recognition by a cancer-targeting antibody. Biochemical Journal, 2020, 477, 3219-3235.	1.7	3
63	Acknowledgement to Reviewers of Journal of Functional Biomaterials in 2019. Journal of Functional Biomaterials, 2020, 11, 6.	1.8	0
64	Multi-directional electrodeposited gold nanospikes for antibacterial surface applications. Nanoscale Advances, 2019, 1, 203-212.	2.2	65
65	Applications of Synchrotron-Source IR Spectroscopy for the Investigation of Insect Wings. , 2019, , .		4
66	Sensomics - From conventional to functional NIR spectroscopy - Shining light over the aroma and taste of foods. Trends in Food Science and Technology, 2019, 91, 274-281.	7.8	26
67	Interaction of Giant Unilamellar Vesicles with the Surface Nanostructures on Dragonfly Wings. Langmuir, 2019, 35, 2422-2430.	1.6	18
68	Influence of the Scanning Temperature on the Classification of Whisky Samples Analysed by UV-VIS Spectroscopy. Applied Sciences (Switzerland), 2019, 9, 3254.	1.3	7
69	Mechanical and chemical properties of Baghdadite coatings manufactured by atmospheric plasma spraying. Surface and Coatings Technology, 2019, 378, 124945.	2.2	31
70	Spectroscopic approaches for rapid beer and wine analysis. Current Opinion in Food Science, 2019, 28, 67-73.	4.1	23
71	PC 12 Pheochromocytoma Cell Response to Super High Frequency Terahertz Radiation from Synchrotron Source. Cancers, 2019, 11, 162.	1.7	20
72	Outsmarting superbugs: bactericidal activity of nanostructured titanium surfaces against methicillin- and gentamicin-resistantStaphylococcus aureusATCC 33592. Journal of Materials Chemistry B, 2019, 7, 4424-4431.	2.9	39

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73	The use of nanomaterials for the mitigation of pathogenic biofilm formation. Methods in Microbiology, 2019, , 61-92.	0.4	31
74	From Academia to Reality Check: A Theoretical Framework on the Use of Chemometric in Food Sciences. Foods, 2019, 8, 164.	1.9	30
75	The Fate of Osteoblast-Like MG-63 Cells on Pre-Infected Bactericidal Nanostructured Titanium Surfaces. Materials, 2019, 12, 1575.	1.3	33
76	Bacterial-nanostructure interactions: The role of cell elasticity and adhesion forces. Journal of Colloid and Interface Science, 2019, 546, 192-210.	5.0	120
77	The role of ionic-liquid extracted lignin micro/nanoparticles for functionalisation of an epoxy-based composite matrix. Composites Science and Technology, 2019, 174, 11-19.	3.8	20
78	Antibacterial Properties of Graphene Oxideâ€“Copper Oxide Nanoparticle Nanocomposites. ACS Applied Bio Materials, 2019, 2, 5687-5696.	2.3	57
79	From the Laboratory to The Vineyardâ€”Evolution of The Measurement of Grape Composition using NIR Spectroscopy towards High-Throughput Analysis. High-Throughput, 2019, 8, 21.	4.4	20
80	Polymerization-Induced Phase Segregation and Self-Assembly of Siloxane Additives to Provide Thermoset Coatings with a Defined Surface Topology and Biocidal and Self-Cleaning Properties. Nanomaterials, 2019, 9, 1610.	1.9	6
81	The membrane effects of melittin on gastric and colorectal cancer. PLoS ONE, 2019, 14, e0224028.	1.1	39
82	Imaging the air-water interface: Characterising biomimetic and natural hydrophobic surfaces using in situ atomic force microscopy. Journal of Colloid and Interface Science, 2019, 536, 363-371.	5.0	20
83	Renewable Bio-anodes for Microbial Fuel Cells. , 2019, , 1167-1182.		0
84	Monitoring Food Aroma during Processing and Storage by Rapid Analytical Methods: A Focus on Electronic Noses and Mass Spectrometry-Based Systems. , 2019, , 159-175.		0
85	Role of topological scale in the differential fouling of Pseudomonas aeruginosa and Staphylococcus aureus bacterial cells on wrinkled gold-coated polystyrene surfaces. Nanoscale, 2018, 10, 5089-5096.	2.8	35
86	Subtle Variations in Surface Properties of Black Silicon Surfaces Influence the Degree of Bactericidal Efficiency. Nano-Micro Letters, 2018, 10, 36.	14.4	68
87	Study of melanin localization in the mature maleCalopteryx haemorrhoidalisdamselfly wings. Journal of Synchrotron Radiation, 2018, 25, 874-877.	1.0	1
88	Recent Advances in Macro ATR-FTIR Microspectroscopic Technique for High Resolution Surface Characterisation at Australian Synchrotron IR Beamline. , 2018, , .		0
89	Structure and Chemical Organization in Damselfly Calopteryx haemorrhoidalis Wings: A Spatially Resolved FTIR and XRF Analysis with Synchrotron Radiation. Scientific Reports, 2018, 8, 8413.	1.6	11
90	Pheochromocytoma (PC12) Cell Response on Mechanobactericidal Titanium Surfaces. Materials, 2018, 11, 605.	1.3	14

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91	Pillars of Life: Is There a Relationship between Lifestyle Factors and the Surface Characteristics of Dragonfly Wings?. ACS Omega, 2018, 3, 6039-6046.	1.6	19
92	Renewable Bio-anodes for Microbial Fuel Cells. , 2018, , 1-16.		1
93	The susceptibility of Staphylococcus aureus CIP 65.8 and Pseudomonas aeruginosa ATCC 9721 cells to the bactericidal action of nanostructured Calopteryx haemorrhoidalis damselfly wing surfaces. Applied Microbiology and Biotechnology, 2017, 101, 4683-4690.	1.7	71
94	Copolymers enhance selective bacterial community colonization for potential root zone applications. Scientific Reports, 2017, 7, 15902.	1.6	8
95	Three-Dimensional Organization of Self-Encapsulating Gluconobacter oxydans Bacterial Cells. ACS Omega, 2017, 2, 8099-8107.	1.6	13
96	Bactericidal activity of self-assembled palmitic and stearic fatty acid crystals on highly ordered pyrolytic graphite. Acta Biomaterialia, 2017, 59, 148-157.	4.1	42
97	Synchrotron macro ATR-FTIR microspectroscopic analysis of silica nanoparticle-embedded polyester coated steel surfaces subjected to prolonged UV and humidity exposure. PLoS ONE, 2017, 12, e0188345.	1.1	13
98	â€œRace for the Surfaceâ€• Eukaryotic Cells Can Win. ACS Applied Materials & Interfaces, 2016, 8, 22025-22031.	4.0	95
99	The Evolution of Silica Nanoparticle-polyester Coatings on Surfaces Exposed to Sunlight. Journal of Visualized Experiments, 2016, , .	0.2	4
100	Antibacterial titanium nano-patterned arrays inspired by dragonfly wings. Scientific Reports, 2015, 5, 16817.	1.6	235
101	Impact of confining 3-D polymer networks on dynamics of bacterial ingress and self-organisation. Journal of Materials Chemistry B, 2015, 3, 8704-8710.	2.9	8
102	Graphene Induces Formation of Pores That Kill Spherical and Rod-Shaped Bacteria. ACS Nano, 2015, 9, 8458-8467.	7.3	322
103	Self-organised nanoarchitecture of titanium surfaces influences the attachment of Staphylococcus aureus and Pseudomonas aeruginosa bacteria. Applied Microbiology and Biotechnology, 2015, 99, 6831-6840.	1.7	22
104	Impact of particle nanotopology on water transport through hydrophobic soils. Journal of Colloid and Interface Science, 2015, 460, 61-70.	5.0	8
105	Statistically quantified measurement of an Alzheimer's marker by surface-enhanced Raman scattering. Journal of Biophotonics, 2015, 8, 567-574.	1.1	40
106	Designing Antibacterial Surfaces for Biomedical Implants. , 2015, , 89-111.		5
107	Nanotopography as a trigger for the microscale, autogenous and passive lysis of erythrocytes. Journal of Materials Chemistry B, 2014, 2, 2819-2826.	2.9	45
108	Bactericidal activity of black silicon. Nature Communications, 2013, 4, 2838.	5.8	731

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109	Bacterial attachment on sub-nanometrically smooth titanium substrata. Biofouling, 2013, 29, 163-170.	0.8	31
110	Selective bactericidal activity of nanopatterned superhydrophobic cicada Psaltoda claripennis wing surfaces. Applied Microbiology and Biotechnology, 2013, 97, 9257-9262.	1.7	270
111	Biophysical Model of Bacterial Cell Interactions with Nanopatterned Cicada Wing Surfaces. Biophysical Journal, 2013, 104, 835-840.	0.2	496
112	Molecular Organization of the Nanoscale Surface Structures of the Dragonfly Hemianax papuensis Wing Epicuticle. PLoS ONE, 2013, 8, e67893.	1.1	61
113	Air-directed attachment of coccoid bacteria to the surface of superhydrophobic lotus-like titanium. Biofouling, 2012, 28, 539-550.	0.8	125
114	Surface topographical factors influencing bacterial attachment. Advances in Colloid and Interface Science, 2012, 179-182, 142-149.	7.0	285
115	Influence of Titanium Alloying Element Substrata on Bacterial Adhesion. Advanced Materials Research, 2012, 535-537, 992-995.	0.3	1
116	Spatial Variations and Temporal Metastability of the Self-Cleaning and Superhydrophobic Properties of Damselfly Wings. Langmuir, 2012, 28, 17404-17409.	1.6	55
117	Roughness Parameters for Standard Description of Surface Nanoarchitecture. Scanning, 2012, 34, 257-263.	0.7	65
118	Natural Bactericidal Surfaces: Mechanical Rupture of Pseudomonas aeruginosa Cells by Cicada Wings. Small, 2012, 8, 2489-2494.	5.2	742
119	Highly selective trapping of enteropathogenic E. coli on Fabryâ€“PÃ©rot sensor mirrors. Biosensors and Bioelectronics, 2012, 35, 369-375.	5.3	12
120	Bacterial Retention on Superhydrophobic Titanium Surfaces Fabricated by Femtosecond Laser Ablation. Langmuir, 2011, 27, 3012-3019.	1.6	366
121	Physico-mechanical characterisation of cells using atomic force microscopy â€” Current research and methodologies. Journal of Microbiological Methods, 2011, 86, 131-139.	0.7	59
122	The influence of nanoscopically thin silver films on bacterial viability and attachment. Applied Microbiology and Biotechnology, 2011, 91, 1149-1157.	1.7	40
123	Accelerated stem cell attachment to ultrafine grained titanium. Acta Biomaterialia, 2011, 7, 900-906.	4.1	114
124	Differential attraction and repulsion of Staphylococcus aureus and Pseudomonas aeruginosa on molecularly smooth titanium films. Scientific Reports, 2011, 1, 165.	1.6	76
125	Nature Inspired Structured Surfaces for Biomedical Applications. Current Medicinal Chemistry, 2011, 18, 3367-3375.	1.2	59
126	The Effect of Polyterpenol Thin Film Surfaces on Bacterial Viability and Adhesion. Polymers, 2011, 3, 388-404.	2.0	62

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127	The influence of nano-scale surface roughness on bacterial adhesion to ultrafine-grained titanium. Biomaterials, 2010, 31, 3674-3683.	5.7	379
128	Impact of Nanoscale Roughness of Titanium Thin Film Surfaces on Bacterial Retention. Langmuir, 2010, 26, 1973-1982.	1.6	177
129	Bacterial attachment on optical fibre surfaces. Biofouling, 2010, 26, 461-470.	0.8	19
130	Plasma-Enhanced Synthesis of Bioactive Polymeric Coatings from Monoterpene Alcohols: A Combined Experimental and Theoretical Study. Biomacromolecules, 2010, 11, 2016-2026.	2.6	63
131	Bacterial attachment response to nanostructured titanium surfaces. , 2010, , .		2
132	Bacterial Attachment Response on Titanium Surfaces with Nanometric Topographic Features. , 2010, , 41-45.		3
133	Differences in colonisation of five marine bacteria on two types of glass surfaces. Biofouling, 2009, 25, 621-631.	0.8	62
134	Effect of ultrafine-grained titanium surfaces on adhesion of bacteria. Applied Microbiology and Biotechnology, 2009, 83, 925-937.	1.7	100
135	Escherichia coli, Pseudomonas aeruginosa, and Staphylococcus aureus Attachment Patterns on Glass Surfaces with Nanoscale Roughness. Current Microbiology, 2009, 58, 268-273.	1.0	220
136	Fabrication of Ti14Nb4Sn Alloys for Bone Tissue Engineering Applications. Key Engineering Materials, 0, 520, 214-219.	0.4	1
137	Wastewater depollution of textile dyes and antibiotics using unmodified and copper oxide/zinc oxide nanofunctionalised graphene oxide materials. Environmental Science Advances, 0, , .	1.0	3