

Jitraporn Vongsvivut

List of Publications by Year in descending order

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Version: 2024-02-01

87
papers

2,250
citations

201674

27
h-index

254184

43
g-index

90
all docs

90
docs citations

90
times ranked

3005
citing authors

#	ARTICLE	IF	CITATIONS
1	Probing the nature of soil organic matter. Critical Reviews in Environmental Science and Technology, 2022, 52, 4072-4093.	12.8	35
2	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.	5.8	8
3	Monitoring the chemical changes in fingermark residue over time using synchrotron infrared spectroscopy. Analyst, The, 2022, 147, 799-810.	3.5	7
4	Magnetic field induced alignment of macroradical epoxy for enhanced electrical properties. Soft Matter, 2022, 18, 5194-5203.	2.7	5
5	Characterisation of breast cancer molecular signature and treatment assessment with vibrational spectroscopy and chemometric approach. PLoS ONE, 2022, 17, e0264347.	2.5	3
6	The Molecular and Mechanical Characteristics of Biomimetic Composite Dental Materials Composed of Nanocrystalline Hydroxyapatite and Light-Cured Adhesive. Biomimetics, 2022, 7, 35.	3.3	6
7	Optical anisotropy of glancing angle deposited thin films on nano-patterned substrates. Optical Materials Express, 2022, 12, 1281.	3.0	0
8	Anisotropic 3D columnar micro-film coating for applications in infrared and visible spectral ranges. Applied Surface Science, 2022, 590, 152910.	6.1	1
9	Polariscopy with optical near-fields. Nanoscale Horizons, 2022, 7, 1047-1053.	8.0	6
10	Effect of Exo/Endogenous Prophylaxis Dentifrice/Drug and Cariogenic Conditions of Patient on Molecular Property of Dental Biofilm: Synchrotron FTIR Spectroscopic Study. Pharmaceutics, 2022, 14, 1355.	4.5	4
11	Co-delivery of inhalable therapies: Controlling active ingredients spatial distribution and temporal release. Materials Science and Engineering C, 2021, 122, 111831.	7.3	2
12	SAHA attenuates Takotsubo-like myocardial injury by targeting an epigenetic Ac/Dc axis. Signal Transduction and Targeted Therapy, 2021, 6, 159.	17.1	14
13	Design of polymeric core-shell carriers for combination therapies. Journal of Colloid and Interface Science, 2021, 587, 499-509.	9.4	14
14	Analysis of Pathogenic Bacterial and Yeast Biofilms Using the Combination of Synchrotron ATR-FTIR Microspectroscopy and Chemometric Approaches. Molecules, 2021, 26, 3890.	3.8	28
15	Infrared Based Saliva Screening Test for COVID-19. Angewandte Chemie - International Edition, 2021, 60, 17102-17107.	13.8	42
16	Infrared Based Saliva Screening Test for COVID-19. Angewandte Chemie, 2021, 133, 17239-17244.	2.0	15
17	Tuning the Electrolyte Solvation Structure to Suppress Cathode Dissolution, Water Reactivity, and Zn Dendrite Growth in Zinc-Ion Batteries. Advanced Functional Materials, 2021, 31, 2104281.	14.9	225
18	Application of synchrotron ATR-FTIR microspectroscopy for chemical characterization of bituminous coals treated with supercritical CO ₂ . Fuel, 2021, 296, 120639.	6.4	21

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19	To the Question on the Use of Multivariate Analysis and 2D Visualisation of Synchrotron ATR-FTIR Chemical Imaging Spectral Data in the Diagnostics of Biomimetic Sound Dentin/Dental Composite Interface. <i>Diagnostics</i> , 2021, 11, 1294.	2.6	9
20	“Wax On, Wax Off” In Vivo Imaging of Plant Physiology and Disease with Fourier Transform Infrared Reflectance Microspectroscopy. <i>Advanced Science</i> , 2021, 8, e2101902.	11.2	5
21	Exploiting spatio-spectral aberrations for rapid synchrotron infrared imaging. <i>Journal of Synchrotron Radiation</i> , 2021, 28, 1616-1619.	2.4	10
22	Biomimetic nano-c-HAp hybrid layer engineering and determination of mechanisms of its integration with native hard dental tissue. <i>Results in Engineering</i> , 2021, 11, 100266.	5.1	9
23	Mapping sub-cellular protein aggregates and lipid inclusions using synchrotron ATR-FTIR microspectroscopy. <i>Analyst</i> , The, 2021, 146, 3516-3525.	3.5	6
24	Anisotropy of 3D Columnar Coatings in Mid-Infrared Spectral Range. <i>Nanomaterials</i> , 2021, 11, 3247.	4.1	3
25	A study on the performance of coke resistive cerium modified zeolite Y catalyst for the pyrolysis of scrap tyres in a two-stage fixed bed reactor. <i>Waste Management</i> , 2020, 102, 139-148.	7.4	29
26	Micro- to nano-scale chemical and mechanical mapping of antimicrobial-resistant fungal biofilms. <i>Nanoscale</i> , 2020, 12, 19888-19904.	5.6	12
27	Asymmetric midshaft femur remodeling in an adult male with left sided hip joint ankylosis, Metal Period Nagsabaran, Philippines. <i>International Journal of Paleopathology</i> , 2020, 31, 14-22.	1.4	6
28	The effect of pH on the fat and protein within cream cheese and their influence on textural and rheological properties. <i>Food Chemistry</i> , 2020, 332, 127327.	8.2	25
29	Investigation of potential anti-pneumococcal effects of l-sulforaphane and metabolites: Insights from synchrotron-FTIR microspectroscopy and molecular docking studies. <i>Journal of Molecular Graphics and Modelling</i> , 2020, 97, 107568.	2.4	4
30	Comparative analysis of dentine and gingival fluid molecular composition and protein conformations during development of dentine caries: A pilot study. <i>Vibrational Spectroscopy</i> , 2020, 108, 103058.	2.2	6
31	Chemical structure transformation during the later stage of plastic layers during coking using Synchrotron infrared microspectroscopy technique. <i>Fuel</i> , 2020, 273, 117764.	6.4	21
32	Hyperspectral mapping of anisotropy. <i>Nanoscale Horizons</i> , 2019, 4, 1443-1449.	8.0	26
33	Dielectric cross-shaped-resonator-based metasurface for vortex beam generation at mid-IR and THz wavelengths. <i>Nanophotonics</i> , 2019, 8, 1263-1270.	6.0	29
34	Revealing the Elemental Distribution within Latent Fingermarks Using Synchrotron Sourced X-ray Fluorescence Microscopy. <i>Analytical Chemistry</i> , 2019, 91, 10622-10630.	6.5	22
35	Odd-even effects on hydration of natural polyelectrolyte multilayers: An in situ synchrotron FTIR microspectroscopy study. <i>Journal of Colloid and Interface Science</i> , 2019, 553, 720-733.	9.4	14
36	Interaction of Giant Unilamellar Vesicles with the Surface Nanostructures on Dragonfly Wings. <i>Langmuir</i> , 2019, 35, 2422-2430.	3.5	18

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37	PC 12 Pheochromocytoma Cell Response to Super High Frequency Terahertz Radiation from Synchrotron Source. <i>Cancers</i> , 2019, 11, 162.	3.7	20
38	Infrared Polariscope Imaging of Linear Polymeric Patterns with a Focal Plane Array. <i>Nanomaterials</i> , 2019, 9, 732.	4.1	14
39	Synchrotron-Based Infra-Red Spectroscopic Insights on Thermo-Catalytic Conversion of Cellulosic Feedstock to Levoglucosenone and Furans. <i>ACS Omega</i> , 2019, 4, 8747-8757.	3.5	16
40	Interfacial chemistry of a fly ash geopolymer and aggregates. <i>Journal of Cleaner Production</i> , 2019, 231, 980-989.	9.3	55
41	Nanoscale optical and structural characterisation of silk. <i>Beilstein Journal of Nanotechnology</i> , 2019, 10, 922-929.	2.8	15
42	Synchrotron macro ATR-FTIR microspectroscopy for high-resolution chemical mapping of single cells. <i>Analyst</i> , The, 2019, 144, 3226-3238.	3.5	74
43	The characterisation of Mozzarella cheese microstructure using high resolution synchrotron transmission and ATR-FTIR microspectroscopy. <i>Food Chemistry</i> , 2019, 291, 214-222.	8.2	25
44	A Spectroscopic Study of Changes in the Secondary Structure of Proteins of Biological Fluids of the Oral Cavity by Synchrotron Infrared Microscopy. <i>Optics and Spectroscopy (English Translation of) Tj ETQq0 0 0 rgB5.6 Overlook 10 Tf 50</i>	3.5	10
45	Investigation of oil distribution in spray-dried chia seed oil microcapsules using synchrotron-FTIR microspectroscopy. <i>Food Chemistry</i> , 2019, 275, 457-466.	8.2	36
46	Paracetamol micro-structure analysis by optical mapping. <i>Applied Surface Science</i> , 2019, 473, 127-132.	6.1	17
47	Spectroscopic signature of the pathological processes of carious dentine based on FTIR investigations of the oral biological fluids. <i>Biomedical Optics Express</i> , 2019, 10, 4050.	2.9	10
48	Synchrotron IR-microspectroscopy-based visualization of molecular and chemical interactions between dental cement, biomimetic composite and native dental tissue. <i>Bulletin of Russian State Medical University</i> , 2019, , 71-78.	0.2	2
49	The classification of lung cancers and their degree of malignancy by FTIR, PCA-LDA analysis, and a physics-based computational model. <i>Talanta</i> , 2018, 186, 337-345.	5.5	61
50	Study of melanin localization in the mature male<i>Calopteryx haemorrhoidalis</i> damselfly wings. <i>Journal of Synchrotron Radiation</i> , 2018, 25, 874-877.	2.4	1
51	Focal plane array IR imaging at the Australian Synchrotron. <i>Infrared Physics and Technology</i> , 2018, 94, 85-90.	2.9	11
52	Pillars of Life: Is There a Relationship between Lifestyle Factors and the Surface Characteristics of Dragonfly Wings?. <i>ACS Omega</i> , 2018, 3, 6039-6046.	3.5	19
53	Revealing the spatial distribution of chemical species within latent fingerprints using vibrational spectroscopy. <i>Analyst</i> , The, 2018, 143, 4027-4039.	3.5	38
54	The susceptibility of <i>Staphylococcus aureus</i> CIP 65.8 and <i>Pseudomonas aeruginosa</i> ATCC 9721 cells to the bactericidal action of nanostructured <i>Calopteryx haemorrhoidalis</i> damselfly wing surfaces. <i>Applied Microbiology and Biotechnology</i> , 2017, 101, 4683-4690.	3.6	71

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55	Physicochemical and thermal characteristics of Australian chia seed oil. Food Chemistry, 2017, 228, 394-402.	8.2	117
56	The effect of thermally induced chemical transformations on the structure and properties of carbon fibre precursors. Journal of Materials Chemistry A, 2017, 5, 7372-7382.	10.3	40
57	Effect of secondary phase on thermal behaviour and solid-state ion conduction in lithium doped N-ethyl-N-methylpyrrolidinium tetrafluoroborate organic ionic plastic crystal. Journal of Materials Chemistry A, 2017, 5, 24909-24919.	10.3	28
58	Nanoscale chemical mapping of laser-solubilized silk. Materials Research Express, 2017, 4, 115028.	1.6	17
59	Insect Analogue to the Lotus Leaf: A Planthopper Wing Membrane Incorporating a Low-Adhesion, Nonwetting, Superhydrophobic, Bactericidal, and Biocompatible Surface. ACS Applied Materials & Interfaces, 2017, 9, 24381-24392.	8.0	68
60	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.	2.5	13
61	Evidence of biogeochemical processes in iron duricrust formation. Journal of South American Earth Sciences, 2016, 71, 131-142.	1.4	39
62	Understanding physicochemical changes in pretreated and enzyme hydrolysed hemp (Cannabis sativa) biomass for biorefinery development. Biomass Conversion and Biorefinery, 2016, 6, 127-138.	4.6	9
63	A study of phase behavior and conductivity of mixtures of the organic ionic plastic crystal N-methyl-N-methyl-pyrrolidinium dicyanamide with sodium dicyanamide. Solid State Ionics, 2015, 272, 74-83.	2.7	23
64	Microencapsulation of tuna oil fortified with the multiple lipophilic ingredients vitamins A, D3, E, K2, curcumin and coenzyme Q10. Journal of Functional Foods, 2015, 19, 893-901.	3.4	47
65	Ionic transport through a composite structure of N-ethyl-N-methylpyrrolidinium tetrafluoroborate organic ionic plastic crystals reinforced with polymer nanofibres. Journal of Materials Chemistry A, 2015, 3, 6038-6052.	10.3	47
66	Simultaneous crystallization and decomposition of PVA/MMT composites during non-isothermal process. Thermochimica Acta, 2015, 618, 26-35.	2.7	15
67	Reinforcement and deformation behaviors of polyvinyl alcohol/graphene/montmorillonite clay composites. Composites Science and Technology, 2015, 118, 1-8.	7.8	34
68	Synchrotron-FTIR Microspectroscopy Enables the Distinction of Lipid Accumulation in Thraustochytrid Strains Through Analysis of Individual Live Cells. Protist, 2015, 166, 106-121.	1.5	10
69	Rapid Determination of Protein Contents in Microencapsulated Fish Oil Supplements by ATR-FTIR Spectroscopy and Partial Least Square Regression (PLSR) Analysis. Food and Bioprocess Technology, 2014, 7, 265-277.	4.7	33
70	Rapid Discrimination and Determination of Polyunsaturated Fatty Acid Composition in Marine Oils by FTIR Spectroscopy and Multivariate Data Analysis. Food and Bioprocess Technology, 2014, 7, 2410-2422.	4.7	51
71	New insight into non-isothermal crystallization of PVA-graphene composites. Physical Chemistry Chemical Physics, 2014, 16, 22145-22158.	2.8	48
72	Evaluation of Bread Crumbs as a Potential Carbon Source for the Growth of Thraustochytrid Species for Oil and Omega-3 Production. Nutrients, 2014, 6, 2104-2114.	4.1	34

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73	Self-assembly of core-satellite gold nanoparticles for colorimetric detection of copper ions. <i>Analytica Chimica Acta</i> , 2013, 803, 128-134.	5.4	80
74	FTIR microspectroscopy for rapid screening and monitoring of polyunsaturated fatty acid production in commercially valuable marine yeasts and protists. <i>Analyst</i> , The, 2013, 138, 6016.	3.5	64
75	Quantitative determination of fatty acid compositions in micro-encapsulated fish-oil supplements using Fourier transform infrared (FTIR) spectroscopy. <i>Food Chemistry</i> , 2012, 135, 603-609.	8.2	85
76	Interaction of quinoline antimalarial drugs with ferriprotoporphyrin IX, a solid state spectroscopy study. <i>Journal of Inorganic Biochemistry</i> , 2011, 105, 1662-1669.	3.5	21
77	Inhomogeneity Effects in Vapor Phase Polymerized PEDOT: A Tool to Influence Conductivity. <i>Macromolecular Materials and Engineering</i> , 2011, 296, 185-189.	3.6	9
78	Surface-enhanced Raman spectroscopic analysis of fonofos pesticide adsorbed on silver and gold nanoparticles. <i>Journal of Raman Spectroscopy</i> , 2010, 41, 1137-1148.	2.5	76
79	Conducting Polymer Enzyme Alloys: Electromaterials Exhibiting Direct Electron Transfer. <i>Macromolecular Rapid Communications</i> , 2010, 31, 1293-1297.	3.9	20
80	Comparative Analysis of Surface-Enhanced Raman Spectroscopy of Daidzein and Formononetin. <i>Journal of Physical Chemistry B</i> , 2010, 114, 7104-7111.	2.6	10
81	Surface-Enhanced Raman Scattering Spectroscopy of Resveratrol. <i>Australian Journal of Chemistry</i> , 2008, 61, 921.	0.9	14
82	Title is missing!. <i>ScienceAsia</i> , 2008, 34, 400.	0.5	2
83	ATR FT-IR Absorption Enhancement of a Thin Film under the Photon-Tunneling Condition. <i>Analytical Sciences</i> , 2007, 23, 847-851.	1.6	0
84	Title is missing!. <i>ScienceAsia</i> , 2006, 32, 261.	0.5	6
85	Characterization of Supported Cylinder-Planar Germanium Waveguide Sensors with Synchrotron Infrared Radiation. <i>Applied Spectroscopy</i> , 2004, 58, 143-151.	2.2	2
86	Symmetrically Tapered <30-1/4m-thick Quasi-Planar Germanium Waveguides as Chemical Sensors for Microanalysis. <i>Applied Spectroscopy</i> , 2002, 56, 1552-1561.	2.2	5
87	Leaving a mark on forensic science: how spectroscopic techniques have revealed new insights in fingerprint chemistry. <i>Spectroscopy Europe</i> , 0, , 22.	0.0	1