

# Jitraporn Vongsvivut

## List of Publications by Year in descending order

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87  
papers

2,250  
citations

201575

27  
h-index

254106

43  
g-index

90  
all docs

90  
docs citations

90  
times ranked

3005  
citing authors

#	ARTICLE	IF	CITATIONS
1	Tuning the Electrolyte Solvation Structure to Suppress Cathode Dissolution, Water Reactivity, and Zn Dendrite Growth in Zinc-Ion Batteries. <i>Advanced Functional Materials</i> , 2021, 31, 2104281.	7.8	225
2	Physicochemical and thermal characteristics of Australian chia seed oil. <i>Food Chemistry</i> , 2017, 228, 394-402.	4.2	117
3	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.	4.2	85
4	Self-assembly of core-satellite gold nanoparticles for colorimetric detection of copper ions. <i>Analitica Chimica Acta</i> , 2013, 803, 128-134.	2.6	80
5	Surface-enhanced Raman spectroscopic analysis of fonofos pesticide adsorbed on silver and gold nanoparticles. <i>Journal of Raman Spectroscopy</i> , 2010, 41, 1137-1148.	1.2	76
6	Synchrotron macro ATR-FTIR microspectroscopy for high-resolution chemical mapping of single cells. <i>Analyst, The</i> , 2019, 144, 3226-3238.	1.7	74
7	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.	1.7	71
8	Insect Analogue to the Lotus Leaf: A Planthopper Wing Membrane Incorporating a Low-Adhesion, Nonwetting, Superhydrophobic, Bactericidal, and Biocompatible Surface. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 24381-24392.	4.0	68
9	FTIR microspectroscopy for rapid screening and monitoring of polyunsaturated fatty acid production in commercially valuable marine yeasts and protists. <i>Analyst, The</i> , 2013, 138, 6016.	1.7	64
10	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.	2.9	61
11	Interfacial chemistry of a fly ash geopolymers and aggregates. <i>Journal of Cleaner Production</i> , 2019, 231, 980-989.	4.6	55
12	Rapid Discrimination and Determination of Polyunsaturated Fatty Acid Composition in Marine Oils by FTIR Spectroscopy and Multivariate Data Analysis. <i>Food and Bioprocess Technology</i> , 2014, 7, 2410-2422.	2.6	51
13	New insight into non-isothermal crystallization of PVA-graphene composites. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 22145-22158.	1.3	48
14	Microencapsulation of tuna oil fortified with the multiple lipophilic ingredients vitamins A, D3, E, K2, curcumin and coenzyme Q10. <i>Journal of Functional Foods</i> , 2015, 19, 893-901.	1.6	47
15	Ionic transport through a composite structure of N-ethyl-N-methylpyrrolidinium tetrafluoroborate organic ionic plastic crystals reinforced with polymer nanofibres. <i>Journal of Materials Chemistry A</i> , 2015, 3, 6038-6052.	5.2	47
16	Infrared Based Saliva Screening Test for COVID-19. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 17102-17107.	7.2	42
17	The effect of thermally induced chemical transformations on the structure and properties of carbon fibre precursors. <i>Journal of Materials Chemistry A</i> , 2017, 5, 7372-7382.	5.2	40
18	Evidence of biogeochemical processes in iron duricrust formation. <i>Journal of South American Earth Sciences</i> , 2016, 71, 131-142.	0.6	39

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19	Revealing the spatial distribution of chemical species within latent fingerprints using vibrational spectroscopy. <i>Analyst</i> , 2018, 143, 4027-4039.	1.7	38
20	Investigation of oil distribution in spray-dried chia seed oil microcapsules using synchrotron-FTIR microspectroscopy. <i>Food Chemistry</i> , 2019, 275, 457-466.	4.2	36
21	Probing the nature of soil organic matter. <i>Critical Reviews in Environmental Science and Technology</i> , 2022, 52, 4072-4093.	6.6	35
22	Evaluation of Bread Crumbs as a Potential Carbon Source for the Growth of Thraustochytrid Species for Oil and Omega-3 Production. <i>Nutrients</i> , 2014, 6, 2104-2114.	1.7	34
23	Reinforcement and deformation behaviors of polyvinyl alcohol/graphene/montmorillonite clay composites. <i>Composites Science and Technology</i> , 2015, 118, 1-8.	3.8	34
24	Rapid Determination of Protein Contents in Microencapsulated Fish Oil Supplements by ATR-FTIR Spectroscopy and Partial Least Square Regression (PLSR) Analysis. <i>Food and Bioprocess Technology</i> , 2014, 7, 265-277.	2.6	33
25	Dielectric cross-shaped-resonator-based metasurface for vortex beam generation at mid-IR and THz wavelengths. <i>Nanophotonics</i> , 2019, 8, 1263-1270.	2.9	29
26	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.	3.7	29
27	Effect of secondary phase on thermal behaviour and solid-state ion conduction in lithium doped <i>N</i> -ethyl- <i>N</i> -methylpyrrolidinium tetrafluoroborate organic ionic plastic crystal. <i>Journal of Materials Chemistry A</i> , 2017, 5, 24909-24919.	5.2	28
28	Analysis of Pathogenic Bacterial and Yeast Biofilms Using the Combination of Synchrotron ATR-FTIR Microspectroscopy and Chemometric Approaches. <i>Molecules</i> , 2021, 26, 3890.	1.7	28
29	Hyperspectral mapping of anisotropy. <i>Nanoscale Horizons</i> , 2019, 4, 1443-1449.	4.1	26
30	The characterisation of Mozzarella cheese microstructure using high resolution synchrotron transmission and ATR-FTIR microspectroscopy. <i>Food Chemistry</i> , 2019, 291, 214-222.	4.2	25
31	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.	4.2	25
32	A study of phase behavior and conductivity of mixtures of the organic ionic plastic crystal <i>N</i> -methyl- <i>N</i> -methyl-pyrrolidinium dicyanamide with sodium dicyanamide. <i>Solid State Ionics</i> , 2015, 272, 74-83.	1.3	23
33	Revealing the Elemental Distribution within Latent Fingermarks Using Synchrotron Sourced X-ray Fluorescence Microscopy. <i>Analytical Chemistry</i> , 2019, 91, 10622-10630.	3.2	22
34	Interaction of quinoline antimalarial drugs with ferriprotoporphyrin IX, a solid state spectroscopy study. <i>Journal of Inorganic Biochemistry</i> , 2011, 105, 1662-1669.	1.5	21
35	Chemical structure transformation during the later stage of plastic layers during coking using Synchrotron infrared microspectroscopy technique. <i>Fuel</i> , 2020, 273, 117764.	3.4	21
36	Application of synchrotron ATR-FTIR microspectroscopy for chemical characterization of bituminous coals treated with supercritical CO <sub>2</sub> . <i>Fuel</i> , 2021, 296, 120639.	3.4	21

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37	Conducting Polymer Enzyme Alloys: Electromaterials Exhibiting Direct Electron Transfer. <i>Macromolecular Rapid Communications</i> , 2010, 31, 1293-1297.	2.0	20
38	PC 12 Pheochromocytoma Cell Response to Super High Frequency Terahertz Radiation from Synchrotron Source. <i>Cancers</i> , 2019, 11, 162.	1.7	20
39	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.	1.6	19
40	Interaction of Giant Unilamellar Vesicles with the Surface Nanostructures on Dragonfly Wings. <i>Langmuir</i> , 2019, 35, 2422-2430.	1.6	18
41	Nanoscale chemical mapping of laser-solubilized silk. <i>Materials Research Express</i> , 2017, 4, 115028.	0.8	17
42	Paracetamol micro-structure analysis by optical mapping. <i>Applied Surface Science</i> , 2019, 473, 127-132.	3.1	17
43	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.	1.6	16
44	Simultaneous crystallization and decomposition of PVA/MMT composites during non-isothermal process. <i>Thermochimica Acta</i> , 2015, 618, 26-35.	1.2	15
45	Nanoscale optical and structural characterisation of silk. <i>Beilstein Journal of Nanotechnology</i> , 2019, 10, 922-929.	1.5	15
46	Infrared Based Saliva Screening Test for COVID-19. <i>Angewandte Chemie</i> , 2021, 133, 17239-17244.	1.6	15
47	Surface-Enhanced Raman Scattering Spectroscopy of Resveratrol. <i>Australian Journal of Chemistry</i> , 2008, 61, 921.	0.5	14
48	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.	5.0	14
49	Infrared Polariscope Imaging of Linear Polymeric Patterns with a Focal Plane Array. <i>Nanomaterials</i> , 2019, 9, 732.	1.9	14
50	SAHA attenuates Takotsubo-like myocardial injury by targeting an epigenetic Ac/Dc axis. <i>Signal Transduction and Targeted Therapy</i> , 2021, 6, 159.	7.1	14
51	Design of polymeric core-shell carriers for combination therapies. <i>Journal of Colloid and Interface Science</i> , 2021, 587, 499-509.	5.0	14
52	Synchrotron macro ATR-FTIR microspectroscopic analysis of silica nanoparticle-embedded polyester coated steel surfaces subjected to prolonged UV and humidity exposure. <i>PLoS ONE</i> , 2017, 12, e0188345.	1.1	13
53	Micro- to nano-scale chemical and mechanical mapping of antimicrobial-resistant fungal biofilms. <i>Nanoscale</i> , 2020, 12, 19888-19904.	2.8	12
54	Focal plane array IR imaging at the Australian Synchrotron. <i>Infrared Physics and Technology</i> , 2018, 94, 85-90.	1.3	11

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55	Comparative Analysis of Surface-Enhanced Raman Spectroscopy of Daidzein and Formononetin. <i>Journal of Physical Chemistry B</i> , 2010, 114, 7104-7111.	1.2	10
56	Synchrotron-FTIR Microspectroscopy Enables the Distinction of Lipid Accumulation in <i>Thraustochytrid</i> Strains Through Analysis of Individual Live Cells. <i>Protist</i> , 2015, 166, 106-121.	0.6	10
57	Exploiting spatio-spectral aberrations for rapid synchrotron infrared imaging. <i>Journal of Synchrotron Radiation</i> , 2021, 28, 1616-1619.	1.0	10
58	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.	1.5	10
59	Inhomogeneity Effects in Vapor Phase Polymerized PEDOT: A Tool to Influence Conductivity. <i>Macromolecular Materials and Engineering</i> , 2011, 296, 185-189.	1.7	9
60	Understanding physicochemical changes in pretreated and enzyme hydrolysed hemp ( <i>Cannabis sativa</i> ) biomass for biorefinery development. <i>Biomass Conversion and Biorefinery</i> , 2016, 6, 127-138.	2.9	9
61	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 Dentine/Dental Composite Interface. <i>Diagnostics</i> , 2021, 11, 1294.	1.3	9
62	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.	2.2	9
63	Illuminating the biochemical interaction of antimicrobial few-layer black phosphorus with microbial cells using synchrotron macro-ATR-FTIR. <i>Journal of Materials Chemistry B</i> , 2022, 10, 7527-7539.	2.9	8
64	Monitoring the chemical changes in fingermark residue over time using synchrotron infrared spectroscopy. <i>Analyst, The</i> , 2022, 147, 799-810.	1.7	7
65	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.	0.8	6
66	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.	1.2	6
67	Mapping sub-cellular protein aggregates and lipid inclusions using synchrotron ATR-FTIR microspectroscopy. <i>Analyst, The</i> , 2021, 146, 3516-3525.	1.7	6
68	Title is missing!. <i>ScienceAsia</i> , 2006, 32, 261.	0.2	6
69	The Molecular and Mechanical Characteristics of Biomimetic Composite Dental Materials Composed of Nanocrystalline Hydroxyapatite and Light-Cured Adhesive. <i>Biomimetics</i> , 2022, 7, 35.	1.5	6
70	Polariscopy with optical near-fields. <i>Nanoscale Horizons</i> , 2022, 7, 1047-1053.	4.1	6
71	Symmetrically Tapered <math>30\text{-}\mu\text{m}</math>-thick Quasi-Planar Germanium Waveguides as Chemical Sensors for Microanalysis. <i>Applied Spectroscopy</i> , 2002, 56, 1552-1561.	1.2	5
72	“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.	5.6	5

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73	Magnetic field induced alignment of macroradical epoxy for enhanced electrical properties. <i>Soft Matter</i> , 2022, 18, 5194-5203.	1.2	5
74	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.	1.3	4
75	Effect of Exo/Endogenous Prophylaxis Dentifrice/Drug and Cariogenic Conditions of Patient on Molecular Property of Dental Biofilm: Synchrotron FTIR Spectroscopic Study. <i>Pharmaceutics</i> , 2022, 14, 1355.	2.0	4
76	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 rgBT.4 Overlock 10 Tf 50</i>	1.0	1
77	Anisotropy of 3D Columnar Coatings in Mid-Infrared Spectral Range. <i>Nanomaterials</i> , 2021, 11, 3247.	1.9	3
78	Characterisation of breast cancer molecular signature and treatment assessment with vibrational spectroscopy and chemometric approach. <i>PLoS ONE</i> , 2022, 17, e0264347.	1.1	3
79	Characterization of Supported Cylinder-Planar Germanium Waveguide Sensors with Synchrotron Infrared Radiation. <i>Applied Spectroscopy</i> , 2004, 58, 143-151.	1.2	2
80	Co-delivery of inhalable therapies: Controlling active ingredients spatial distribution and temporal release. <i>Materials Science and Engineering C</i> , 2021, 122, 111831.	3.8	2
81	Title is missing!. <i>ScienceAsia</i> , 2008, 34, 400.	0.2	2
82	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.	0.3	2
83	Study of melanin localization in the mature male <i>Calopteryx haemorrhoidalis</i> damselfly wings. <i>Journal of Synchrotron Radiation</i> , 2018, 25, 874-877.	1.0	1
84	Anisotropic 3D columnar micro-film coating for applications in infrared and visible spectral ranges. <i>Applied Surface Science</i> , 2022, 590, 152910.	3.1	1
85	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
86	ATR FT-IR Absorption Enhancement of a Thin Film under the Photon-Tunneling Condition. <i>Analytical Sciences</i> , 2007, 23, 847-851.	0.8	0
87	Optical anisotropy of glancing angle deposited thin films on nano-patterned substrates. <i>Optical Materials Express</i> , 2022, 12, 1281.	1.6	0