

# Alessandro Nucara

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

58  
papers

1,261  
citations

15  
h-index

34  
g-index

60  
ext. papers

1,501  
ext. citations

4.1  
avg, IF

4.47  
L-index

#	Paper	IF	Citations
58	Legume Proteins and Peptides as Compounds in Nutraceuticals: A Structural Basis for Dietary Health Effects.. <i>Nutrients</i> , <b>2022</b> , 14,	6.7	2
57	Influence of Cortisol on the Fibril Formation Kinetics of A $\beta$ 2 Peptide: A Multi-Technical Approach. <i>International Journal of Molecular Sciences</i> , <b>2022</b> , 23, 6007	6.3	
56	Spectral Characterization of Mid-Infrared Bloch Surface Waves Excited on a Truncated 1D Photonic Crystal. <i>ACS Photonics</i> , <b>2021</b> , 8, 350-359	6.3	5
55	Revealing Artists' Collaboration in a 14th Century Manuscript by Non-Invasive Analyses. <i>Minerals (Basel, Switzerland)</i> , <b>2021</b> , 11, 771	2.4	2
54	The unseen evidence of Reduced Ionicity: The elephant in (the) room temperature ionic liquids. <i>Journal of Molecular Liquids</i> , <b>2021</b> , 324, 115069	6	9
53	Normal mode calculation and infrared spectroscopy of proteins in water solution: Relationship between amide I transition dipole strength and secondary structure. <i>International Journal of Biological Macromolecules</i> , <b>2021</b> , 185, 369-376	7.9	1
52	Dyes of a Shadow Theatre: Investigating Tholu Bommalu Indian Puppets through a Highly Sensitive Multi-Spectroscopic Approach. <i>Heritage</i> , <b>2021</b> , 4, 1807-1820	1.6	0
51	The Puzzling Problem of Cardiolipin Membrane-Cytochrome c Interactions: A Combined Infrared and Fluorescence Study. <i>International Journal of Molecular Sciences</i> , <b>2021</b> , 22,	6.3	3
50	A combined electrochemical, infrared and EDXD tool to disclose Deep Eutectic Solvents formation when one precursor is liquid: Glyceline as case study. <i>Journal of Molecular Liquids</i> , <b>2020</b> , 319, 114292	6	7
49	Cytochrome aggregation: A dataset at and far from the isoelectric point. <i>Data in Brief</i> , <b>2020</b> , 28, 104842	1.2	
48	A multivariate analysis for enhancing the interpretation of infrared spectra of plant residues on lithic artefacts. <i>Journal of Archaeological Science: Reports</i> , <b>2020</b> , 33, 102526	0.7	3
47	Plasmonic Superchiral Lattice Resonances in the Mid-Infrared. <i>ACS Photonics</i> , <b>2020</b> , 7, 2676-2681	6.3	12
46	Achieving cytochrome c fibril/aggregate control towards micro-platelets and micro-fibers by tuning pH and protein concentration: A combined morphological and spectroscopic analysis. <i>International Journal of Biological Macromolecules</i> , <b>2019</b> , 138, 106-115	7.9	4
45	Grazing-angle reflectivity setup for the low-temperature infrared spectroscopy of two-dimensional systems. <i>Journal of Synchrotron Radiation</i> , <b>2019</b> , 26, 1945-1950	2.4	1
44	Infrared Spectroscopy of the Topological Surface States of Bi <sub>2</sub> Se <sub>3</sub> by Use of the Berreman Effect. <i>Physical Review Letters</i> , <b>2018</b> , 121, 176803	7.4	5
43	Heterogeneity of the Transmembrane Protein Conformation in Purple Membranes Identified by Infrared Nanospectroscopy. <i>Small</i> , <b>2017</b> , 13, 1701181	11	23
42	Hydrogen-Deuterium exchange kinetics in $\beta$ -lactoglobulin (-)-epicatechin complexes studied by FTIR spectroscopy. <i>International Journal of Biological Macromolecules</i> , <b>2017</b> , 104, 521-526	7.9	5

41	Tunability of the dielectric function of heavily doped germanium thin films for mid-infrared plasmonics. <i>Physical Review B</i> , <b>2016</b> , 94,	3.3	57
40	Protein clustering in chemically stressed HeLa cells studied by infrared nanospectroscopy. <i>Nanoscale</i> , <b>2016</b> , 8, 17560-17567	7.7	14
39	Modulating intracellular acidification by regulating the incubation time of proton caged compounds. <i>European Biophysics Journal</i> , <b>2016</b> , 45, 565-71	1.9	1
38	Exogenous control over intracellular acidification: Enhancement via proton caged compounds coupled to gold nanoparticles and an alternative pathway with DMSO. <i>Data in Brief</i> , <b>2016</b> , 6, 745-9	1.2	2
37	Stabilization of the Tensile Strength of Aged Cellulose Paper by Cholinium-Amino Acid Ionic Liquid Treatment. <i>Journal of Physical Chemistry C</i> , <b>2016</b> , 120, 24088-24097	3.8	18
36	An integrated superhydrophobic-plasmonic biosensor for mid-infrared protein detection at the femtomole level. <i>Physical Chemistry Chemical Physics</i> , <b>2015</b> , 17, 21337-42	3.6	21
35	Exogenous control over intracellular acidification: Enhancement via proton caged compounds coupled to gold nanoparticles. <i>Biochimica Et Biophysica Acta - General Subjects</i> , <b>2015</b> , 1850, 2304-7	4	15
34	Structural aspects of legume proteins and nutraceutical properties. <i>Food Research International</i> , <b>2015</b> , 76, 19-30	7	103
33	Chemico-physical and nutritional properties of traditional legumes (lentil, <i>Lens culinaris</i> L., and grass pea, <i>Lathyrus sativus</i> L.) from organic agriculture: an explorative study. <i>Organic Agriculture</i> , <b>2015</b> , 5, 179-187	1.7	15
32	Synthesis of proton caged disulphide compounds for gold nanoparticle functionalization. <i>New Journal of Chemistry</i> , <b>2015</b> , 39, 2489-2496	3.6	7
31	Determination of the free carrier concentration in atomic-layer doped germanium thin films by infrared spectroscopy. <i>Journal of Optics (United Kingdom)</i> , <b>2014</b> , 16, 094010	1.7	5
30	Optical spectra of LaMn <sub>0.5</sub> Ga <sub>0.5</sub> O <sub>3</sub> : A contribution to the assignment of the electronic transitions in manganites. <i>Physica B: Condensed Matter</i> , <b>2014</b> , 433, 102-106	2.8	8
29	Epicatechin-induced conformational changes in $\beta$ -lactoglobulin B monitored by FT-IR spectroscopy. <i>SpringerPlus</i> , <b>2013</b> , 2, 661		10
28	Intrinsic linewidth of the plasmonic resonance in a micrometric metal mesh. <i>Optics Express</i> , <b>2013</b> , 21, 15401-8	3.3	3
27	Relationship between digestibility and secondary structure of raw and thermally treated legume proteins: a Fourier transform infrared (FT-IR) spectroscopic study. <i>Amino Acids</i> , <b>2012</b> , 43, 911-21	3.5	179
26	Optical investigation of LaMnO <sub>3</sub> thin films: a study of the 2-eV band. <i>European Physical Journal B</i> , <b>2011</b> , 79, 435-441	1.2	6
25	Ion distribution preferences in ternary crystals Zn <sub>x</sub> Cd <sub>1-x</sub> Te, Zn <sub>1-x</sub> Hg <sub>x</sub> Te and Cd <sub>1-x</sub> Hg <sub>x</sub> Te. <i>European Physical Journal B</i> , <b>2011</b> , 84, 183-195	1.2	6
24	Scaling the spectral response of metamaterial dipolar filters in the terahertz. <i>Optics Communications</i> , <b>2011</b> , 284, 1690-1693	2	8

23	Pressure-temperature phase diagram of charge ordering in Nd 1/2 Sr 1/2 MnO 3. <i>Europhysics Letters</i> , <b>2010</b> , 92, 47001	1.6	4
22	Optical properties of (SrMnO) <sub>h</sub> /(LaMnO) <sub>h</sub> superlattices: an insulator-to-metal transition observed in the absence of disorder. <i>Nano Letters</i> , <b>2010</b> , 10, 4819-23	11.5	26
21	High pressure behavior of Ga-doped LaMnO <sub>3</sub> : a combined X-ray diffraction and optical spectroscopy study. <i>Journal of Materials Chemistry</i> , <b>2010</b> , 20, 1304-1311		18
20	Secondary structure of food proteins by Fourier transform spectroscopy in the mid-infrared region. <i>Amino Acids</i> , <b>2010</b> , 38, 679-90	3.5	245
19	The white colour in Etruscan polychromes on terracotta: Spectroscopic identification of kaolin. <i>Journal of Cultural Heritage</i> , <b>2008</b> , 9, 23-29	2.9	10
18	Application of Fourier transform infrared spectroscopy to legume seed flour analysis. <i>Food Chemistry</i> , <b>2008</b> , 108, 361-368	8.5	81
17	Performance of SISSI, the infrared beamline of the ELETTRA storage ring. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>2007</b> , 24, 959	1.7	112
16	High resolution spectra of defects in CdTe obtained in far-infrared region using synchrotron radiation. <i>Infrared Physics and Technology</i> , <b>2006</b> , 49, 23-28	2.7	4
15	Highly ordered "defect-free" self-assembled hybrid films with a tetragonal mesostructure. <i>Journal of the American Chemical Society</i> , <b>2005</b> , 127, 3838-46	16.4	67
14	Optical performances of SINBAD, the synchrotron infrared beamline at DAPHNE. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , <b>2005</b> , 22, 2810-7	1.8	46
13	Far-infrared synchrotron radiation spectroscopy of solids in normal and extreme conditions. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , <b>2005</b> , 2, 236-239		2
12	Vibrational spectra of hydrogenated CdTe. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , <b>2005</b> , 2, 1147-1154		13
11	The synchrotron infrared beamline SISSI at ELETTRA. <i>Infrared Physics and Technology</i> , <b>2004</b> , 45, 375-381	2.7	8
10	Effect of band inversion on the phonon spectra of Hg <sub>1-x</sub> Zn <sub>x</sub> Te and Hg <sub>1-x</sub> Cd <sub>x</sub> Te semiconductor alloys. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , <b>2004</b> , 1, 2836-2839		3
9	Analysis of phonon spectra of the ZnxCd <sub>1-x</sub> Te solid-solution. <i>Journal of Alloys and Compounds</i> , <b>2004</b> , 371, 172-176	5.7	14
8	The infrared synchrotron radiation beamline at the third generation light source ELETTRA. <i>Review of Scientific Instruments</i> , <b>2003</b> , 74, 3934-3942	1.7	14
7	Doping-induced modifications in the infrared-active phonons of La <sub>2-x</sub> Sr <sub>x</sub> CuO <sub>4</sub> . <i>Physica C: Superconductivity and Its Applications</i> , <b>2001</b> , 350, 55-61	1.3	5
6	Infrared beamline SINBAD at DAFNE: expected performance at the sample site <b>1999</b> ,		2

5	SINBAD, a brilliant IR source from the DAPHiNE storage ring. <i>Journal of Synchrotron Radiation</i> , <b>1998</b> , 5, 575-7	2.4	3
4	The EFactory DANE as a source of infrared radiation: An estimate of source size and brilliance. <i>Review of Scientific Instruments</i> , <b>1995</b> , 66, 1934-1936	1.7	13
3	Translational absorption band in low density mixtures of noble gases: the He-Xe case. <i>Molecular Physics</i> , <b>1995</b> , 84, 1065-1075	1.7	3
2	Vibron and roton bands in the first overtone of solid and liquid parahydrogen. <i>Physical Review B</i> , <b>1994</b> , 49, 6672-6677	3.3	1
1	Translational and rotational spectra in the fundamental infrared band of liquid and solid parahydrogen. <i>Physical Review B</i> , <b>1993</b> , 47, 2590-2595	3.3	6