

# Alberto Eljarrat Ascunce

## List of Publications by Year in descending order

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34  
papers

397  
citations

933447

10  
h-index

794594

19  
g-index

35  
all docs

35  
docs citations

35  
times ranked

790  
citing authors

#	ARTICLE	IF	CITATIONS
1	A consistent picture of excitations in cubic BaSnO <sub>3</sub> revealed by combining theory and experiment. Communications Materials, 2022, 3, .	6.9	10
2	Surface-Functionalized Au@Pd Nanorods with Enhanced Photothermal Conversion and Catalytic Performance. ACS Applied Materials & Interfaces, 2022, 14, 17259-17272.	8.0	11
3	Quantifying the data quality of focal series for inline electron holography. Ultramicroscopy, 2021, 231, 113264.	1.9	1
4	Unraveling electronic band structure of narrow-bandgap $\pi$ -n nanojunctions in heterostructured nanowires. Physical Chemistry Chemical Physics, 2021, 23, 25019-25023.	2.8	6
5	Kinetic Study on the Adsorption of 2,3,5,6-Tetrafluoro-7,7,8,8-tetracyanoquinodimethane on Ag Nanoparticles in Chloroform: Implications for the Charge Transfer Complex of Ag <sup>+</sup> F <sup>-</sup> <sub>4</sub> TCNQ. ACS Applied Nano Materials, 2021, 4, 11625-11635.	5.0	2
6	Influence of Silicon Layers on the Growth of ITO and AZO in Silicon Heterojunction Solar Cells. IEEE Journal of Photovoltaics, 2020, 10, 703-709.	2.5	31
7	In Situ TEM Monitoring of Phase-Segregation in Inorganic Mixed Halide Perovskite. Journal of Physical Chemistry Letters, 2020, 11, 4945-4950.	4.6	29
8	Individual tubular J-aggregates stabilized and stiffened by silica encapsulation. Colloid and Polymer Science, 2020, 298, 937-950.	2.1	4
9	Multi-resolution convolutional neural networks for inverse problems. Scientific Reports, 2020, 10, 5730.	3.3	17
10	Multiple InGaN QW heterostructure. Advances in Imaging and Electron Physics, 2019, , 135-158.	0.2	0
11	Design and application of a relativistic Kramers-Kronig analysis algorithm. Ultramicroscopy, 2019, 206, 112825.	1.9	3
12	Low-loss EELS methods. Advances in Imaging and Electron Physics, 2019, , 49-77.	0.2	1
13	Er-doped Si-nc/SiO <sub>2</sub> multilayer. Advances in Imaging and Electron Physics, 2019, , 159-173.	0.2	0
14	DFT modeling of wurtzite III-nitride ternary alloys. Advances in Imaging and Electron Physics, 2019, , 79-99.	0.2	1
15	Si-NCs embedded in dielectric matrices. Advances in Imaging and Electron Physics, 2019, , 175-203.	0.2	0
16	AlN/GaN and InAlN/GaN DBRs. Advances in Imaging and Electron Physics, 2019, 209, 101-133.	0.2	0
17	Multi-focus TIE algorithm including partial spatial coherence and overlapping filters. Optics Express, 2018, 26, 11819.	3.4	6
18	Electron Microscopy (Big and Small) Data Analysis With the Open Source Software Package HyperSpy. Microscopy and Microanalysis, 2017, 23, 214-215.	0.4	74

#	ARTICLE	IF	CITATIONS
19	3D Visualization of the Iron Oxidation State in FeO/Fe <sub>3</sub> O <sub>4</sub> Core-Shell Nanocubes from Electron Energy Loss Tomography. Nano Letters, 2016, 16, 5068-5073.	9.1	56
20	Electron energy-loss spectroscopic tomography of Fe <sub>x</sub> Co(3-x)O <sub>4</sub> impregnated Co <sub>3</sub> O <sub>4</sub> mesoporous particles: unraveling the chemical information in three dimensions. Analyst, The, 2016, 141, 4968-4972.	3.5	3
21	Quantitative parameters for the examination of InGaN QW multilayers by low-loss EELS. Physical Chemistry Chemical Physics, 2016, 18, 23264-23276.	2.8	4
22	Density Functional Theory Modeling of Low-Loss Electron Energy-Loss Spectroscopy in Wurtzite III-Nitride Ternary Alloys. Microscopy and Microanalysis, 2016, 22, 706-716.	0.4	9
23	Electron energy loss spectroscopy on semiconductor heterostructures for optoelectronics and photonics applications. Journal of Microscopy, 2016, 262, 142-150.	1.8	3
24	Precessed electron beam electron energy loss spectroscopy of graphene: Beyond channelling effects. Applied Physics Letters, 2014, 105, 053117.	3.3	2
25	Retrieving the electronic properties of silicon nanocrystals embedded in a dielectric matrix by low-loss EELS. Nanoscale, 2014, 6, 14971-14983.	5.6	18
26	EELS tomography in multiferroic nanocomposites: from spectrum images to the spectrum volume. Nanoscale, 2014, 6, 6646-6650.	5.6	11
27	Structural and compositional properties of Er-doped silicon nanoclusters/oxides for multilayered photonic devices studied by STEM-EELS. Nanoscale, 2013, 5, 9963.	5.6	3
28	(Invited) Optimizing Er-Doped Layer Stacks for Integrated Light Emitting Devices. ECS Transactions, 2013, 53, 81-84.	0.5	1
29	Insight into high-reflectivity AlN/GaN Bragg reflectors with spontaneously formed (Al,Ga)N transient layers at the interfaces. Journal of Applied Physics, 2013, 113, 183106.	2.5	12
30	Insight into the Compositional and Structural Nano Features of AlN/GaN DBRs by EELS-HAADF. Microscopy and Microanalysis, 2013, 19, 698-705.	0.4	10
31	Optoelectronic Properties of InAlN/GaN Distributed Bragg Reflector Heterostructure Examined by Valence Electron Energy Loss Spectroscopy. Microscopy and Microanalysis, 2012, 18, 1143-1154.	0.4	23
32	EEL spectroscopic tomography: Towards a new dimension in nanomaterials analysis. Ultramicroscopy, 2012, 122, 12-18.	1.9	37
33	(V)EELS Characterization of InAlN/GaN Distributed Bragg Reflectors. Journal of Physics: Conference Series, 2011, 326, 012014.	0.4	1
34	Extrinsic Localized Excitons in Patterned 2D Semiconductors. Advanced Functional Materials, 0, , 2203060.	14.9	8