

# Bruno Giuseppe Pignataro

## List of Publications by Year in descending order

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85  
papers

2,796  
citations

172207

29  
h-index

182168

51  
g-index

87  
all docs

87  
docs citations

87  
times ranked

4765  
citing authors

#	ARTICLE	IF	CITATIONS
1	“Writing biochips”: high-resolution droplet-to-droplet manufacturing of analytical platforms. <i>Analyst</i> , The, 2022, 147, 1294-1312.	1.7	2
2	Boosting the Performance of One-Step Solution-Processed Perovskite Solar Cells Using a Natural Monoterpene Alcohol as a Green Solvent Additive. <i>ACS Applied Electronic Materials</i> , 2021, 3, 1813-1825.	2.0	22
3	Pseudo-Planar Organic Heterojunctions by Sequential Printing of Quasi-Miscible Inks. <i>Coatings</i> , 2021, 11, 586.	1.2	4
4	Improved Photocatalytic Activity of Polysiloxane TiO <sub>2</sub> Composites by Thermally Induced Nanoparticle Bulk Clustering and Dye Adsorption. <i>Langmuir</i> , 2021, 37, 10354-10365.	1.6	5
5	Superhydrophobic TiO <sub>2</sub> /fluorinated polysiloxane hybrid coatings with controlled morphology for solar photocatalysis. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021, 631, 127633.	2.3	12
6	Semitransparent Perovskite Solar Cells for Building Integration and Tandem Photovoltaics: Design Strategies and Challenges. <i>Solar Rrl</i> , 2021, 5, 2100702.	3.1	31
7	Bending Sensors Based on Thin Films of Semitransparent Bithiophene- <i>Fulleropyrrolidine</i> Bisadducts. <i>ChemPlusChem</i> , 2020, 85, 2455-2464.	1.3	3
8	Mastering the Tools: Natural versus Artificial Vesicles in Nanomedicine. <i>Advanced Healthcare Materials</i> , 2020, 9, e2000731.	3.9	34
9	Printing ZnO Inks: From Principles to Devices. <i>Crystals</i> , 2020, 10, 449.	1.0	14
10	Tackling Performance Challenges in Organic Photovoltaics: An Overview about Compatibilizers. <i>Molecules</i> , 2020, 25, 2200.	1.7	20
11	Artificial Biosystems by Printing Biology. <i>Small</i> , 2020, 16, e1907691.	5.2	21
12	Synergies and compromises between charge and energy transfers in three-component organic solar cells. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 8344-8352.	1.3	7
13	On the Interaction between 1D Materials and Living Cells. <i>Journal of Functional Biomaterials</i> , 2020, 11, 40.	1.8	6
14	Aqueous Processed Biopolymer Interfaces for Single-Cell Microarrays. <i>ACS Biomaterials Science and Engineering</i> , 2020, 6, 3174-3186.	2.6	13
15	Sub-Cellular Scale Compartments: Printing Life-Inspired Subcellular Scale Compartments with Autonomous Molecularly Crowded Confinement ( <i>Adv. Biosys.</i> 7/2019). <i>Advanced Biology</i> , 2019, 3, 1970074.	3.0	3
16	Layered Double Hydroxides: A Toolbox for Chemistry and Biology. <i>Crystals</i> , 2019, 9, 361.	1.0	61
17	Printing Life-Inspired Subcellular Scale Compartments with Autonomous Molecularly Crowded Confinement. <i>Advanced Biology</i> , 2019, 3, e1900023.	3.0	10
18	Oil-in-Water <i>fl</i> Droplets by Interfacial Spontaneous Fragmentation and Their Electrical Characterization. <i>Langmuir</i> , 2019, 35, 4936-4945.	1.6	7

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19	Nonprecious Copper-Based Transparent Top Electrode via Seed Layer-Assisted Thermal Evaporation for High-Performance Semitransparent $\text{n}^+\text{i}^-\text{p}$ Perovskite Solar Cells. <i>Advanced Materials Technologies</i> , 2019, 4, 1800688.	3.0	41
20	Imbibition of Femtoliter-Scale DNA-Rich Aqueous Droplets into Porous Nylon Substrates by Molecular Printing. <i>Langmuir</i> , 2019, 35, 17156-17165.	1.6	12
21	Polystyrene nanoparticle-templated hollow titania nanosphere monolayers as ordered scaffolds. <i>Journal of Materials Chemistry C</i> , 2018, 6, 2502-2508.	2.7	18
22	Amperometric Biosensor and Front-End Electronics for Remote Glucose Monitoring by Crosslinked PEDOT-Glucose Oxidase. <i>IEEE Sensors Journal</i> , 2018, 18, 4869-4878.	2.4	29
23	Ag nanoparticles in argel nanocomposites for SERS detection of cultural heritage interest pigments. <i>European Physical Journal Plus</i> , 2018, 133, 1.	1.2	8
24	Enhanced power-conversion efficiency in organic solar cells incorporating copolymeric phase-separation modulators. <i>Journal of Materials Chemistry A</i> , 2018, 6, 3884-3894.	5.2	22
25	The European Young Chemist Award 2018. <i>Chemistry - A European Journal</i> , 2018, 24, 17164-17169.	1.7	0
26	Inkjet printing Ag nanoparticles for SERS hot spots. <i>Analytical Methods</i> , 2018, 10, 3215-3223.	1.3	33
27	Multi-doped Brookite-Prevalent $\text{TiO}_2$ Photocatalyst with Enhanced Activity in the Visible Light. <i>Catalysis Letters</i> , 2018, 148, 2459-2471.	1.4	8
28	Young Chemists: A Source of New Ideas. <i>Chemistry - A European Journal</i> , 2018, 24, 12105-12106.	1.7	1
29	Thiophene pyrenyl derivatives for the supramolecular processability of single-walled carbon nanotubes in thin film heterojunction. <i>Synthetic Metals</i> , 2017, 229, 7-15.	2.1	14
30	Ambipolar $\text{MoS}_2$ Transistors by Nanoscale Tailoring of Schottky Barrier Using Oxygen Plasma Functionalization. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 23164-23174.	4.0	81
31	Donor-Acceptor Interfaces by Engineered Nanoparticles Assemblies for Enhanced Efficiency in Plastic Planar Heterojunction Solar Cells. <i>Journal of Physical Chemistry C</i> , 2016, 120, 26588-26599.	1.5	9
32	The European Young Chemists Award 2016. <i>Chemistry - A European Journal</i> , 2016, 22, 17053-17058.	1.7	4
33	Monitoring few molecular binding events in scalable confined aqueous compartments by raster image correlation spectroscopy (CADRICS). <i>Lab on A Chip</i> , 2016, 16, 4666-4676.	3.1	19
34	Symmetric naphthalenediimidequaterthiophenes for electropolymerized electrochromic thin films. <i>Journal of Materials Chemistry C</i> , 2015, 3, 5985-5994.	2.7	27
35	On the trade-off between processability and opto-electronic properties of single wall carbon nanotube derivatives in thin film heterojunctions. <i>Journal of Materials Chemistry C</i> , 2015, 3, 303-312.	2.7	20
36	Editorial: Young Chemists and the European Young Chemist Award. <i>Chemistry - A European Journal</i> , 2014, 20, 10532-10537.	1.7	4

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37	An insight into the functionalisation of carbon nanotubes by diazonium chemistry: Towards a controlled decoration. Carbon, 2014, 74, 73-82.	5.4	61
38	Self-organization and nanostructural control in thin film heterojunctions. Nanoscale, 2014, 6, 3566-3575.	2.8	20
39	Recent advances in upscalable wet methods and ink formulations for printed electronics. Journal of Materials Chemistry C, 2014, 2, 6436-6453.	2.7	183
40	The European Young Chemist Award 2014. Chemistry - A European Journal, 2014, 20, 16405-16410.	1.7	1
41	Biochips for Cell Biology by Combined Dip-Pen Nanolithography and DNA-Directed Protein Immobilization. Small, 2013, 9, 4243-4249.	5.2	58
42	Polymeric Thin Films for Organic Electronics: Properties and Adaptive Structures. Materials, 2013, 6, 1159-1190.	1.3	34
43	Luminometric sub-nanoliter droplet-to-droplet array (LUMDA) and its application to drug screening by phase I metabolism enzymes. Lab on A Chip, 2013, 13, 68-72.	3.1	34
44	Carnosine Inhibits $\text{A}\beta_{42}$ Aggregation by Perturbing the H-Bond Network in and around the Central Hydrophobic Cluster. ChemBioChem, 2013, 14, 583-592.	1.3	76
45	Exploring the Interplay Between Ligand Derivatisation and Cation Type in the Assembly of Hybrid Polyoxometalate Mn-Andersons. Small, 2013, 9, 2316-2324.	5.2	23
46	Copper(ii) and zinc(ii) dependent effects on $\text{A}\beta_{42}$ aggregation: a CD, Th-T and SFM study. New Journal of Chemistry, 2013, 37, 1206.	1.4	13
47	( <i>E</i> )-2-Cyano-3-(5-piperidin-1-yl)-2,2-bithienyl)acrylic Acid: A Fluorescent Probe for Detecting Prefibrillar Oligomers. European Journal of Organic Chemistry, 2013, 2013, 3635-3639.	1.2	6
48	Electrodeposition of novel poly(naphthalenediimide-quaterthiophene) thin films and applications in plastic optoelectronics devices. , 2013, , .		0
49	The European Young Chemist Award 2012. Chemistry - A European Journal, 2012, 18, 14881-14886.	1.7	4
50	Selecting speed-dependent pathways for a programmable nanoscale texture by wet interfaces. Chemical Society Reviews, 2012, 41, 6859.	18.7	22
51	Solution Processed Micro- and Nano-Bioarrays for Multiplexed Biosensing. Analytical Chemistry, 2012, 84, 5450-5462.	3.2	48
52	Carbon nanotubes and organic solar cells. Energy and Environmental Science, 2012, 5, 5919-5940.	15.6	158
53	From Monolayer to Multilayer N-Channel Polymeric Field-Effect Transistors with Precise Conformational Order. Advanced Materials, 2012, 24, 951-956.	11.1	109
54	Programmable Surface Architectures Derived from Hybrid Polyoxometalate-Based Clusters. Journal of Physical Chemistry C, 2011, 115, 4446-4455.	1.5	33

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55	Enhanced Thin-Film Transistor Performance by Combining 1,3,6-N-Sulfinylacetamidopentacene with Printed PEDOT:PSS Electrodes. <i>Chemistry of Materials</i> , 2011, 23, 1061-1069.	3.2	20
56	Smart High- $\kappa$ Nanodielectrics Using Solid Supported Polyoxometalate-Rich Nanostructures. <i>ACS Nano</i> , 2011, 5, 9992-9999.	7.3	38
57	Supramolecular Order of Solution-Processed Perylene $\text{diimide}$ Thin Films: High-Performance Small-Channel $n$ -Type Organic Transistors. <i>Advanced Functional Materials</i> , 2011, 21, 4479-4486.	7.8	38
58	The European Young Chemist Award 2010. <i>Chemistry - A European Journal</i> , 2010, 16, 13888-13893.	1.7	5
59	Organoboron Polymers for Photovoltaic Bulk Heterojunctions. <i>Macromolecular Rapid Communications</i> , 2010, 31, 1281-1286.	2.0	58
60	Inkjet Printing Methodologies for Drug Screening. <i>Analytical Chemistry</i> , 2010, 82, 3104-3107.	3.2	59
61	Engineering 3D ordered molecular thin films by nanoscale control. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 14848.	1.3	15
62	Assembly of Modular Asymmetric Organic-Inorganic Polyoxometalate Hybrids into Anisotropic Nanostructures. <i>Journal of the American Chemical Society</i> , 2010, 132, 15490-15492.	6.6	101
63	The zero field self-organization of cobalt/surfactant nanocomposite thin films. <i>Nanotechnology</i> , 2009, 20, 225605.	1.3	4
64	Design and synthesis of new trehalose-conjugated pentapeptides as inhibitors of $\text{A}\beta(1-42)$ fibrillogenesis and toxicity. <i>Journal of Peptide Science</i> , 2009, 15, 220-228.	0.8	43
65	Nanostructured molecular surfaces: advances in investigation and patterning tools. <i>Journal of Materials Chemistry</i> , 2009, 19, 3338.	6.7	28
66	Protective Effects of $\beta$ - and $\gamma$ -Carnosine on $\text{I}\pm$ -Crystallin Amyloid Fibril Formation: Implications for Cataract Disease. <i>Biochemistry</i> , 2009, 48, 6522-6531.	1.2	52
67	On the Relationship between Jetted Inks and Printed Biopatterns: Molecular-Thin Functional Microarrays of Glucose Oxidase. <i>Langmuir</i> , 2009, 25, 6312-6318.	1.6	34
68	$\text{I}\pm$ -Amyloid Monomers Are Neuroprotective. <i>Journal of Neuroscience</i> , 2009, 29, 10582-10587.	1.7	350
69	Self-Organization Pathways and Spatial Heterogeneity in Insulin Amyloid Fibril Formation. <i>Journal of Physical Chemistry B</i> , 2009, 113, 10830-10837.	1.2	54
70	Nanostructural depth-profile and field-effect properties of poly(alkoxyphenylene-thienylene) Langmuir-Schaefer thin-films. <i>Thin Solid Films</i> , 2008, 516, 3263-3269.	0.8	8
71	The European Young Chemist Award 2008. <i>Chemistry - A European Journal</i> , 2008, 14, 11252-11256.	1.7	5
72	Surface effects on the growth of solution processed pentacene thin films. <i>Surface Science</i> , 2008, 602, 993-1005.	0.8	14

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73	Advances in SPMs for Investigation and Modification of Solid-Supported Monolayers. , 2008, , 55-88.		2
74	Trehalose effects on $\beta$ -crystallin aggregates. Biochemical and Biophysical Research Communications, 2007, 354, 899-905.	1.0	24
75	Switching Direction of Laterally Ordered Monolayers Induced by Transfer Instability. Journal of Physical Chemistry B, 2007, 111, 9189-9192.	1.2	22
76	$\text{A}\beta$ (25-35) and its C- and/or N-blocked derivatives: Copper driven structural features and neurotoxicity. Journal of Neuroscience Research, 2007, 85, 623-633.	1.3	34
77	Poly(alkoxyphenylene-thienylene) Langmuir-Schaefer Thin Films for Advanced Performance Transistors. Chemistry of Materials, 2006, 18, 778-784.	3.2	40
78	Supra-aggregates of Fiber-Forming Anisotropic Molecules. Journal of Physical Chemistry B, 2006, 110, 2116-2124.	1.2	7
79	Structural and <i>in situ</i> vibrational study of luminescent cluster assembled silicon thin films. Thin Solid Films, 2006, 495, 343-347.	0.8	2
80	Adhesion of liposomes: a quartz crystal microbalance study. Measurement Science and Technology, 2003, 14, 1865-1875.	1.4	37
81	Langmuir-Schaefer films of a new calix[4]pyrrole-based macrocycle exhibiting induced chirality upon binding with chiral alcohol vapours. New Journal of Chemistry, 2003, 27, 615.	1.4	16
82	Dynamic scanning force microscopy investigation of nanostructured spiral-like domains in Langmuir-Blodgett monolayers. Nanotechnology, 2003, 14, 245-249.	1.3	22
83	Nanoscale organization of human serum albumin at model cytocompatible surfaces. Materials Science and Engineering C, 2001, 15, 245-248.	3.8	3
84	Specific Adhesion of Vesicles Monitored by Scanning Force Microscopy and Quartz Crystal Microbalance. Biophysical Journal, 2000, 78, 487-498.	0.2	112
85	The role of micro- and nanomorphology of rough silver surfaces of different nature in surface enhanced Raman scattering effect: A combined study of scanning force microscopy and low-frequency Raman modes. Journal of Chemical Physics, 2000, 113, 5947-5953.	1.2	40