

# Bruno Giuseppe Pignataro

## List of Publications by Year in descending order

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85  
papers

2,796  
citations

172457

29  
h-index

182427

51  
g-index

87  
all docs

87  
docs citations

87  
times ranked

4765  
citing authors

#	ARTICLE	IF	CITATIONS
1	$\beta$ -Amyloid Monomers Are Neuroprotective. <i>Journal of Neuroscience</i> , 2009, 29, 10582-10587.	3.6	350
2	Recent advances in upscalable wet methods and ink formulations for printed electronics. <i>Journal of Materials Chemistry C</i> , 2014, 2, 6436-6453.	5.5	183
3	Carbon nanotubes and organic solar cells. <i>Energy and Environmental Science</i> , 2012, 5, 5919-5940.	30.8	158
4	Specific Adhesion of Vesicles Monitored by Scanning Force Microscopy and Quartz Crystal Microbalance. <i>Biophysical Journal</i> , 2000, 78, 487-498.	0.5	112
5	From Monolayer to Multilayer N-Channel Polymeric Field-Effect Transistors with Precise Conformational Order. <i>Advanced Materials</i> , 2012, 24, 951-956.	21.0	109
6	Assembly of Modular Asymmetric Organic-Inorganic Polyoxometalate Hybrids into Anisotropic Nanostructures. <i>Journal of the American Chemical Society</i> , 2010, 132, 15490-15492.	13.7	101
7	Ambipolar MoS <sub>2</sub> Transistors by Nanoscale Tailoring of Schottky Barrier Using Oxygen Plasma Functionalization. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 23164-23174.	8.0	81
8	Carnosine Inhibits A $\beta$ Aggregation by Perturbing the H-Bond Network in and around the Central Hydrophobic Cluster. <i>ChemBioChem</i> , 2013, 14, 583-592.	2.6	76
9	An insight into the functionalisation of carbon nanotubes by diazonium chemistry: Towards a controlled decoration. <i>Carbon</i> , 2014, 74, 73-82.	10.3	61
10	Layered Double Hydroxides: A Toolbox for Chemistry and Biology. <i>Crystals</i> , 2019, 9, 361.	2.2	61
11	Inkjet Printing Methodologies for Drug Screening. <i>Analytical Chemistry</i> , 2010, 82, 3104-3107.	6.5	59
12	Organoboron Polymers for Photovoltaic Bulk Heterojunctions. <i>Macromolecular Rapid Communications</i> , 2010, 31, 1281-1286.	3.9	58
13	Biochips for Cell Biology by Combined Dip-Pen Nanolithography and DNA-Directed Protein Immobilization. <i>Small</i> , 2013, 9, 4243-4249.	10.0	58
14	Self-Organization Pathways and Spatial Heterogeneity in Insulin Amyloid Fibril Formation. <i>Journal of Physical Chemistry B</i> , 2009, 113, 10830-10837.	2.6	54
15	Protective Effects of L- and D-Carnosine on $\beta$ -Crystallin Amyloid Fibril Formation: Implications for Cataract Disease. <i>Biochemistry</i> , 2009, 48, 6522-6531.	2.5	52
16	Solution Processed Micro- and Nano-Bioarrays for Multiplexed Biosensing. <i>Analytical Chemistry</i> , 2012, 84, 5450-5462.	6.5	48
17	Design and synthesis of new trehalose-conjugated pentapeptides as inhibitors of A $\beta$ (1-42) fibrillogenesis and toxicity. <i>Journal of Peptide Science</i> , 2009, 15, 220-228.	1.4	43
18	Nonprecious Copper-Based Transparent Top Electrode via Seed Layer-Assisted Thermal Evaporation for High-Performance Semitransparent n-i-p Perovskite Solar Cells. <i>Advanced Materials Technologies</i> , 2019, 4, 1800688.	5.8	41

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19	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. <i>Journal of Chemical Physics</i> , 2000, 113, 5947-5953.	3.0	40
20	Poly(alkoxyphenyleneâthienylene) LangmuirâSchÃfer Thin Films for Advanced Performance Transistors. <i>Chemistry of Materials</i> , 2006, 18, 778-784.	6.7	40
21	Smart High-Î Nanodielectrics Using Solid Supported Polyoxometalate-Rich Nanostructures. <i>ACS Nano</i> , 2011, 5, 9992-9999.	14.6	38
22	Supramolecular Order of SolutionâProcessed Perylenediimide Thin Films: HighâPerformance SmallâChannel nâType Organic Transistors. <i>Advanced Functional Materials</i> , 2011, 21, 4479-4486.	14.9	38
23	Adhesion of liposomes: a quartz crystal microbalance study. <i>Measurement Science and Technology</i> , 2003, 14, 1865-1875.	2.6	37
24	Ã(25â35) and its C- and/or N-blocked derivatives: Copper driven structural features and neurotoxicity. <i>Journal of Neuroscience Research</i> , 2007, 85, 623-633.	2.9	34
25	On the Relationship between Jetted Inks and Printed Biopatterns: Molecular-Thin Functional Microarrays of Glucose Oxidase. <i>Langmuir</i> , 2009, 25, 6312-6318.	3.5	34
26	Polymeric Thin Films for Organic Electronics: Properties and Adaptive Structures. <i>Materials</i> , 2013, 6, 1159-1190.	2.9	34
27	Luminometric sub-nanoliter droplet-to-droplet array (LUMDA) and its application to drug screening by phase I metabolism enzymes. <i>Lab on A Chip</i> , 2013, 13, 68-72.	6.0	34
28	Mastering the Tools: Natural versus Artificial Vesicles in Nanomedicine. <i>Advanced Healthcare Materials</i> , 2020, 9, e2000731.	7.6	34
29	Programmable Surface Architectures Derived from Hybrid Polyoxometalate-Based Clusters. <i>Journal of Physical Chemistry C</i> , 2011, 115, 4446-4455.	3.1	33
30	Inkjet printing Ag nanoparticles for SERS hot spots. <i>Analytical Methods</i> , 2018, 10, 3215-3223.	2.7	33
31	Semitransparent Perovskite Solar Cells for Building Integration and Tandem Photovoltaics: Design Strategies and Challenges. <i>Solar Rrl</i> , 2021, 5, 2100702.	5.8	31
32	Amperometric Biosensor and Front-End Electronics for Remote Glucose Monitoring by Crosslinked PEDOT-Glucose Oxidase. <i>IEEE Sensors Journal</i> , 2018, 18, 4869-4878.	4.7	29
33	Nanostructured molecular surfaces: advances in investigation and patterning tools. <i>Journal of Materials Chemistry</i> , 2009, 19, 3338.	6.7	28
34	Symmetric naphthalenediimidequaterthiophenes for electropolymerized electrochromic thin films. <i>Journal of Materials Chemistry C</i> , 2015, 3, 5985-5994.	5.5	27
35	Trehalose effects on Î-crystallin aggregates. <i>Biochemical and Biophysical Research Communications</i> , 2007, 354, 899-905.	2.1	24
36	Exploring the Interplay Between Ligand Derivatisation and Cation Type in the Assembly of Hybrid Polyoxometalate MnâAndersons. <i>Small</i> , 2013, 9, 2316-2324.	10.0	23

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37	Dynamic scanning force microscopy investigation of nanostructured spiral-like domains in Langmuir-Blodgett monolayers. <i>Nanotechnology</i> , 2003, 14, 245-249.	2.6	22
38	Switching Direction of Laterally Ordered Monolayers Induced by Transfer Instability. <i>Journal of Physical Chemistry B</i> , 2007, 111, 9189-9192.	2.6	22
39	Selecting speed-dependent pathways for a programmable nanoscale texture by wet interfaces. <i>Chemical Society Reviews</i> , 2012, 41, 6859.	38.1	22
40	Enhanced power-conversion efficiency in organic solar cells incorporating copolymeric phase-separation modulators. <i>Journal of Materials Chemistry A</i> , 2018, 6, 3884-3894.	10.3	22
41	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.	4.3	22
42	Artificial Biosystems by Printing Biology. <i>Small</i> , 2020, 16, e1907691.	10.0	21
43	Enhanced Thin-Film Transistor Performance by Combining 13,6-N-Sulfinylacetamidopentacene with Printed PEDOT:PSS Electrodes. <i>Chemistry of Materials</i> , 2011, 23, 1061-1069.	6.7	20
44	Self-organization and nanostructural control in thin film heterojunctions. <i>Nanoscale</i> , 2014, 6, 3566-3575.	5.6	20
45	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.	5.5	20
46	Tackling Performance Challenges in Organic Photovoltaics: An Overview about Compatibilizers. <i>Molecules</i> , 2020, 25, 2200.	3.8	20
47	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.	6.0	19
48	Polystyrene nanoparticle-templated hollow titania nanosphere monolayers as ordered scaffolds. <i>Journal of Materials Chemistry C</i> , 2018, 6, 2502-2508.	5.5	18
49	Langmuir-Schaefer films of a new calix[4]pyrrole-based macrocycle exhibiting induced chirality upon binding with chiral alcohol vapours. <i>New Journal of Chemistry</i> , 2003, 27, 615.	2.8	16
50	Engineering 3D ordered molecular thin films by nanoscale control. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 14848.	2.8	15
51	Surface effects on the growth of solution processed pentacene thin films. <i>Surface Science</i> , 2008, 602, 993-1005.	1.9	14
52	Thiophene pyrenyl derivatives for the supramolecular processability of single-walled carbon nanotubes in thin film heterojunction. <i>Synthetic Metals</i> , 2017, 229, 7-15.	3.9	14
53	Printing ZnO Inks: From Principles to Devices. <i>Crystals</i> , 2020, 10, 449.	2.2	14
54	Copper(ii) and zinc(ii) dependent effects on A $\beta$ 242 aggregation: a CD, Th-T and SFM study. <i>New Journal of Chemistry</i> , 2013, 37, 1206.	2.8	13

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55	Aqueous Processed Biopolymer Interfaces for Single-Cell Microarrays. ACS Biomaterials Science and Engineering, 2020, 6, 3174-3186.	5.2	13
56	Imbibition of Femtoliter-Scale DNA-Rich Aqueous Droplets into Porous Nylon Substrates by Molecular Printing. Langmuir, 2019, 35, 17156-17165.	3.5	12
57	Superhydrophobic TiO <sub>2</sub> /fluorinated polysiloxane hybrid coatings with controlled morphology for solar photocatalysis. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2021, 631, 127633.	4.7	12
58	Printing Life-Inspired Subcellular Scale Compartments with Autonomous Molecularly Crowded Confinement. Advanced Biology, 2019, 3, e1900023.	3.0	10
59	Donor-Acceptor Interfaces by Engineered Nanoparticles Assemblies for Enhanced Efficiency in Plastic Planar Heterojunction Solar Cells. Journal of Physical Chemistry C, 2016, 120, 26588-26599.	3.1	9
60	Nanostructural depth-profile and field-effect properties of poly(alkoxyphenylene-thienylene) Langmuir-Schaefer thin-films. Thin Solid Films, 2008, 516, 3263-3269.	1.8	8
61	Ag nanoparticles in agarose nanocomposites for SERS detection of cultural heritage interest pigments. European Physical Journal Plus, 2018, 133, 1.	2.6	8
62	Multi-doped Brookite-Prevalent TiO <sub>2</sub> Photocatalyst with Enhanced Activity in the Visible Light. Catalysis Letters, 2018, 148, 2459-2471.	2.6	8
63	Supra-aggregates of Fiber-Forming Anisotropic Molecules. Journal of Physical Chemistry B, 2006, 110, 2116-2124.	2.6	7
64	Oil-in-Water fL Droplets by Interfacial Spontaneous Fragmentation and Their Electrical Characterization. Langmuir, 2019, 35, 4936-4945.	3.5	7
65	Synergies and compromises between charge and energy transfers in three-component organic solar cells. Physical Chemistry Chemical Physics, 2020, 22, 8344-8352.	2.8	7
66	(E)-2-cyano-3-(5-(piperidin-1-yl)-2-thienyl)acrylic Acid: A Fluorescent Probe for Detecting Prefibrillar Oligomers. European Journal of Organic Chemistry, 2013, 2013, 3635-3639.	2.4	6
67	On the Interaction between 1D Materials and Living Cells. Journal of Functional Biomaterials, 2020, 11, 40.	4.4	6
68	The European Young Chemist Award 2008. Chemistry - A European Journal, 2008, 14, 11252-11256.	3.3	5
69	The European Young Chemist Award 2010. Chemistry - A European Journal, 2010, 16, 13888-13893.	3.3	5
70	Improved Photocatalytic Activity of Polysiloxane TiO <sub>2</sub> Composites by Thermally Induced Nanoparticle Bulk Clustering and Dye Adsorption. Langmuir, 2021, 37, 10354-10365.	3.5	5
71	The zero field self-organization of cobalt/surfactant nanocomposite thin films. Nanotechnology, 2009, 20, 225605.	2.6	4
72	The European Young Chemist Award 2012. Chemistry - A European Journal, 2012, 18, 14881-14886.	3.3	4

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73	Editorial: Young Chemists and the European Young Chemist Award. Chemistry - A European Journal, 2014, 20, 10532-10537.	3.3	4
74	The European Young Chemists Award 2016. Chemistry - A European Journal, 2016, 22, 17053-17058.	3.3	4
75	Pseudo-Planar Organic Heterojunctions by Sequential Printing of Quasi-Miscible Inks. Coatings, 2021, 11, 586.	2.6	4
76	Nanoscale organization of human serum albumin at model cytocompatible surfaces. Materials Science and Engineering C, 2001, 15, 245-248.	7.3	3
77	Sub-Cellular Scale Compartments: Printing Life-Inspired Subcellular Scale Compartments with Autonomous Molecularly Crowded Confinement (Adv. Biosys. 7/2019). Advanced Biology, 2019, 3, 1970074.	3.0	3
78	Bending Sensors Based on Thin Films of Semitransparent Bithiophene- <i>h</i> -Fulleropyrrolidine Bisadducts. ChemPlusChem, 2020, 85, 2455-2464.	2.8	3
79	Structural and <i>in situ</i> vibrational study of luminescent cluster assembled silicon thin films. Thin Solid Films, 2006, 495, 343-347.	1.8	2
80	Advances in SPMs for Investigation and Modification of Solid-Supported Monolayers. , 2008, , 55-88.		2
81	"Writing biochips": high-resolution droplet-to-droplet manufacturing of analytical platforms. Analyst, The, 2022, 147, 1294-1312.	3.5	2
82	The European Young Chemist Award 2014. Chemistry - A European Journal, 2014, 20, 16405-16410.	3.3	1
83	Young Chemists: A Source of New Ideas. Chemistry - A European Journal, 2018, 24, 12105-12106.	3.3	1
84	Electrodeposition of novel poly(naphthalenediimide-quaterthiophene) thin films and applications in plastic optoelectronics devices. , 2013, , .		0
85	The European Young Chemist Award 2018. Chemistry - A European Journal, 2018, 24, 17164-17169.	3.3	0