

# Fabrice Piazza

## List of Publications by Year in descending order

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31  
papers

945  
citations

706676

14  
h-index

488211

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g-index

31  
all docs

31  
docs citations

31  
times ranked

1075  
citing authors

#	ARTICLE	IF	CITATIONS
1	Progress on Diamane and Diamanoid Thin Film Pressureless Synthesis. Journal of Carbon Research, 2021, 7, 9.	1.4	11
2	Ultra-Thin Carbon Films: The Rise of sp <sup>3</sup> -C-Based 2D Materials?. Journal of Carbon Research, 2021, 7, 30.	1.4	2
3	Combining low and high electron energy diffractions as a powerful tool for studying 2D materials. Applied Physics A: Materials Science and Processing, 2021, 127, 1.	1.1	1
4	Unveiling the existence and role of a liquid phase in a high temperature (1400 Å°C) pyrolytic carbon deposition process. Carbon Trends, 2021, 5, 100117.	1.4	5
5	Towards a better understanding of the structure of diamanoÃds and diamanoÃd/graphene hybrids. Carbon, 2020, 156, 234-241.	5.4	40
6	Raman evidence for the successful synthesis of diamane. Carbon, 2020, 169, 129-133.	5.4	49
7	Low temperature, pressureless sp <sup>2</sup> to sp <sup>3</sup> transformation of ultrathin, crystalline carbon films. Carbon, 2019, 145, 10-22.	5.4	64
8	Carbon nanotubes coated with diamond nanocrystals and silicon carbide by hot-filament chemical vapor deposition below 200 Å°C substrate temperature. Carbon, 2014, 75, 113-123.	5.4	10
9	High-Yield Synthesis of Stoichiometric Boron Nitride Nanostructures. Journal of Nanomaterials, 2009, 2009, 1-6.	1.5	7
10	Wettability of hydrogenated tetrahedral amorphous carbon. Diamond and Related Materials, 2009, 18, 43-50.	1.8	31
11	Synthesis of diamond nanocrystals on polyimide film. Diamond and Related Materials, 2009, 18, 113-116.	1.8	10
12	Synthesis of diamond at sub 300ÃÃC substrate temperature. Diamond and Related Materials, 2007, 16, 1950-1957.	1.8	31
13	Nonlinear effects in collision cascades and high energy shock waves during ta-C:H growth. Journal of Applied Physics, 2007, 102, 013301.	1.1	5
14	Synthesis of unstrained failure-resistant nanocrystalline diamond films. Thin Solid Films, 2007, 515, 7906-7910.	0.8	7
15	Diamond film synthesis at low temperature. Diamond and Related Materials, 2006, 15, 109-116.	1.8	23
16	Synthesis of polycrystalline diamond at low temperature on temperature sensitive materials of industrial interest. International Journal of Refractory Metals and Hard Materials, 2006, 24, 24-31.	1.7	6
17	Hard-hydrogenated tetrahedral amorphous carbon films by distributed electron cyclotron resonance plasma. International Journal of Refractory Metals and Hard Materials, 2006, 24, 39-48.	1.7	14
18	Effects of a nanocomposite carbon buffer layer on the field emission properties of multiwall carbon nanotubes and nanofibers grown by hot filament chemical vapor deposition. Journal of Vacuum Science & Technology B, 2006, 24, 639.	1.3	14

#	ARTICLE	IF	CITATIONS
19	Protective diamond-like carbon coatings for future optical storage disks. <i>Diamond and Related Materials</i> , 2005, 14, 994-999.	1.8	93
20	Bonding in hydrogenated diamond-like carbon by Raman spectroscopy. <i>Diamond and Related Materials</i> , 2005, 14, 1098-1102.	1.8	353
21	Numerical study of the electrostatic field gradients present in various planar emitter field emission configurations relevant to experimental research. <i>Journal of Vacuum Science &amp; Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 2005, 23, 645.	1.6	17
22	Formation of boron carbonitride nanotubes from in situ grown carbon nanotubes. <i>Diamond and Related Materials</i> , 2005, 14, 965-969.	1.8	23
23	Large area deposition of hydrogenated amorphous carbon films for optical storage disks. <i>Diamond and Related Materials</i> , 2004, 13, 1505-1510.	1.8	16
24	Flyable media for slider based ultra-high density optical recording. <i>IET Science, Measurement and Technology</i> , 2003, 150, 203-206.	0.7	7
25	Impact of energy density and stress fields on the nucleation dynamics of plasma deposited a-C:H films. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2003, 206, 731-735.	0.6	3
26	Transpolyacetylene chains in DECR plasma deposited a-C:H films. <i>Diamond and Related Materials</i> , 2003, 12, 942-945.	1.8	13
27	Hypersonic shock waves and hybridization of a-C:H thin films. <i>Journal of Applied Physics</i> , 2003, 93, 5911-5919.	1.1	4
28	Transpolyacetylene chains in hydrogenated amorphous carbon films free of nanocrystalline diamond. <i>Applied Physics Letters</i> , 2003, 82, 358-360.	1.5	56
29	Stress field effects on the microstructure and properties of a-C:H thin films. <i>Journal of Applied Physics</i> , 2002, 92, 3662-3670.	1.1	18
30	Incorporation of Hydrogen and Oxygen into (t)a-C:H Thin Films Deposited using DECR plasma (<sup>*</sup>). <i>Materials Research Society Symposia Proceedings</i> , 2001, 675, 1.	0.1	5
31	Influence of the process parameters on the properties of hydrogenated amorphous carbon thin films deposited using ECR plasma. <i>Thin Solid Films</i> , 2001, 383, 196-199.	0.8	7