

Florence Garrelie

List of Publications by Year in descending order

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62
papers

1,757
citations

279487

23
h-index

288905

40
g-index

62
all docs

62
docs citations

62
times ranked

1783
citing authors

#	ARTICLE	IF	CITATIONS
1	Evidence of surface plasmon resonance in ultrafast laser-induced ripples. <i>Optics Express</i> , 2011, 19, 9035.	1.7	217
2	Growth Twinning and Generation of High-Frequency Surface Nanostructures in Ultrafast Laser-Induced Transient Melting and Resolidification. <i>ACS Nano</i> , 2016, 10, 6995-7007.	7.3	90
3	Review of Graphene Growth From a Solid Carbon Source by Pulsed Laser Deposition (PLD). <i>Frontiers in Chemistry</i> , 2018, 6, 572.	1.8	78
4	Nano-Architecture of nitrogen-doped graphene films synthesized from a solid CN source. <i>Scientific Reports</i> , 2018, 8, 3247.	1.6	72
5	Raman study of the substrate influence on graphene synthesis using a solid carbon source via rapid thermal annealing. <i>Journal of Raman Spectroscopy</i> , 2019, 50, 1630-1641.	1.2	57
6	Single- and multi-pulse formation of surface structures under static femtosecond irradiation. <i>Applied Surface Science</i> , 2007, 253, 8075-8079.	3.1	56
7	Self-organization of surfaces on the nanoscale by topography-mediated selection of quasi-cylindrical and plasmonic waves. <i>Nanophotonics</i> , 2019, 8, 459-465.	2.9	53
8	Nickel-incorporated amorphous carbon film deposited by femtosecond pulsed laser ablation. <i>Thin Solid Films</i> , 2005, 482, 287-292.	0.8	50
9	Electrochemical performances of B doped and undoped diamond-like carbon (DLC) films deposited by femtosecond pulsed laser ablation for heavy metal detection using square wave anodic stripping voltammetric (SWASV) technique. <i>Sensors and Actuators B: Chemical</i> , 2011, 155, 120-125.	4.0	50
10	Robust Electrografting on Self-Organized 3D Graphene Electrodes. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 1424-1433.	4.0	50
11	Amplification and regulation of periodic nanostructures in multipulse ultrashort laser-induced surface evolution by electromagnetic-hydrodynamic simulations. <i>Physical Review B</i> , 2019, 99, .	1.1	50
12	Monte Carlo simulation of the laser-induced plasma plume expansion under vacuum: Comparison with experiments. <i>Journal of Applied Physics</i> , 1998, 83, 5075-5082.	1.1	49
13	Study by a Monte Carlo simulation of the influence of a background gas on the expansion dynamics of a laser-induced plasma plume. <i>Applied Physics A: Materials Science and Processing</i> , 1999, 69, 45-50.	1.1	45
14	Self-Arranged Periodic Nanovoids by Ultrafast Laser-Induced Near-Field Enhancement. <i>ACS Photonics</i> , 2018, 5, 1418-1426.	3.2	45
15	Light absorption by surface nanoholes and nanobumps. <i>Applied Surface Science</i> , 2019, 470, 228-233.	3.1	45
16	Influence of crystal orientation on the formation of femtosecond laser-induced periodic surface structures and lattice defects accumulation. <i>Applied Physics Letters</i> , 2014, 104, .	1.5	44
17	Electrochemical Boron-Doped Diamond Film Microcells Micromachined with Femtosecond Laser: Application to the Determination of Water Framework Directive Metals. <i>Analytical Chemistry</i> , 2012, 84, 4805-4811.	3.2	42
18	Mechanical and tribological characterization of tetrahedral diamond-like carbon deposited by femtosecond pulsed laser deposition on pre-treated orthopaedic biomaterials. <i>Applied Surface Science</i> , 2005, 247, 225-231.	3.1	39

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19	Structure of diamondlike carbon films deposited by femtosecond and nanosecond pulsed laser ablation. <i>Journal of Applied Physics</i> , 2010, 108, .	1.1	39
20	Optical properties of high-density amorphous carbon films grown by nanosecond and femtosecond pulsed laser ablation. <i>Applied Physics A: Materials Science and Processing</i> , 2005, 81, 471-476.	1.1	32
21	Dynamics of carbon diffusion and segregation through nickel catalyst, investigated by in-situ XPS, during the growth of nitrogen-doped graphene. <i>Carbon</i> , 2019, 155, 410-420.	5.4	31
22	Adaptive control of femtosecond laser ablation plasma emission. <i>Applied Surface Science</i> , 2009, 255, 5163-5166.	3.1	29
23	Sub-100 nm 2D nanopatterning on a large scale by ultrafast laser energy regulation. <i>Nanoscale</i> , 2020, 12, 6609-6616.	2.8	24
24	Nanostructured coatings of metal containing diamond-like carbon films deposited by femtosecond pulsed laser ablation. <i>Surface and Coatings Technology</i> , 2006, 200, 6272-6278.	2.2	23
25	Characterization of different diamond-like carbon electrodes for biosensor design. <i>Talanta</i> , 2007, 72, 310-314.	2.9	22
26	Nanocomposite tantalum-carbon-based films deposited by femtosecond pulsed laser ablation. <i>Thin Solid Films</i> , 2006, 494, 98-104.	0.8	21
27	Control of the Graphite Femtosecond Ablation Plume Kinetics by Temporal Laser Pulse Shaping: Effects on Pulsed Laser Deposition of Diamond-Like Carbon. <i>Journal of Physical Chemistry C</i> , 2014, 118, 4377-4385.	1.5	21
28	Self-Organization Regimes Induced by Ultrafast Laser on Surfaces in the Tens of Nanometer Scales. <i>Nanomaterials</i> , 2021, 11, 1020.	1.9	21
29	Mixing periodic topographies and structural patterns on silicon surfaces mediated by ultrafast photoexcited charge carriers. <i>Physical Review Research</i> , 2020, 2, .	1.3	21
30	Electrical properties of boron-doped diamond-like carbon thin films deposited by femtosecond pulsed laser ablation. <i>Applied Physics A: Materials Science and Processing</i> , 2009, 94, 105-109.	1.1	20
31	Electron backscatter diffraction characterization of laser-induced periodic surface structures on nickel surface. <i>Applied Surface Science</i> , 2014, 302, 114-117.	3.1	19
32	[INVITED] Control of femtosecond pulsed laser ablation and deposition by temporal pulse shaping. <i>Optics and Laser Technology</i> , 2016, 78, 42-51.	2.2	19
33	Plasmonic and Hydrodynamic Effects in Ultrafast Laser-Induced Periodic Surface Structures on Metals. <i>Journal of Laser Micro Nanoengineering</i> , 2012, 7, 362-368.	0.4	19
34	Effect of boron incorporation on the structure and electrical properties of diamond-like carbon films deposited by femtosecond and nanosecond pulsed laser ablation. <i>Thin Solid Films</i> , 2009, 518, 1470-1474.	0.8	18
35	Study of different carbon materials for amperometric enzyme biosensor development. <i>Materials Science and Engineering C</i> , 2006, 26, 564-567.	3.8	17
36	Surface enhanced Raman spectroscopy platform based on graphene with one-year stability. <i>Thin Solid Films</i> , 2016, 604, 74-80.	0.8	17

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37	On the Insignificant Role of the Oxidation Process on Ultrafast High-Spatial-Frequency LIPSS Formation on Tungsten. <i>Nanomaterials</i> , 2021, 11, 1069.	1.9	15
38	Expansion dynamics of the plasma plume created by laser ablation in a background gas. <i>Applied Physics A: Materials Science and Processing</i> , 1999, 69, S55-S58.	1.1	13
39	Temporal pulse shaping effects on aluminium and boron ablation plumes generated by ultrashort pulsed laser ablation and analyzed by time- and space-resolved optical spectroscopy. <i>Applied Surface Science</i> , 2012, 258, 9374-9378.	3.1	13
40	Nanoscale Imaging of Ultrafast Light Coupling to Self-Organized Nanostructures. <i>ACS Photonics</i> , 2019, 6, 2287-2294.	3.2	13
41	Graphene synthesis on SiO ₂ using pulsed laser deposition with bilayer predominance. <i>Materials Chemistry and Physics</i> , 2019, 238, 121905.	2.0	13
42	Electroanalytical Performance of Nitrogen-Doped Graphene Films Processed in One Step by Pulsed Laser Deposition Directly Coupled with Thermal Annealing. <i>Materials</i> , 2019, 12, 666.	1.3	13
43	Tuning spectral properties of ultrafast laser ablation plasmas from brass using adaptive temporal pulse shaping. <i>Optics Express</i> , 2010, 18, 11159.	1.7	12
44	Effect of nitrogen surrounding gas and plasma assistance on nitrogen incorporation in a-C:N films by femtosecond pulsed laser deposition. <i>Applied Surface Science</i> , 2016, 374, 104-111.	3.1	11
45	Initial Morphology and Feedback Effects on Laser-Induced Periodic Nanostructuring of Thin-Film Metallic Glasses. <i>Nanomaterials</i> , 2021, 11, 1076.	1.9	11
46	Boosted Spontaneous Formation of High-Aspect Ratio Nanopeaks on Ultrafast Laser-Irradiated Ni Surface. <i>Advanced Science</i> , 2022, 9, .	5.6	11
47	Hopping current density in amorphous carbon/crystalline silicon heterojunctions. <i>Journal of Non-Crystalline Solids</i> , 2006, 352, 1421-1424.	1.5	10
48	<i>In situ</i> diagnostic of the size distribution of nanoparticles generated by ultrashort pulsed laser ablation in vacuum. <i>Applied Physics Letters</i> , 2014, 104, 104101.	1.5	10
49	High N-content a-C:N films elaborated by femtosecond PLD with plasma assistance. <i>Applied Surface Science</i> , 2015, 332, 346-353.	3.1	10
50	Transfer-free graphene synthesis by nickel catalyst dewetting using rapid thermal annealing. <i>Applied Surface Science</i> , 2021, 555, 149492.	3.1	10
51	Structure, electrochemical properties and functionalization of amorphous CN films deposited by femtosecond pulsed laser ablation. <i>Diamond and Related Materials</i> , 2016, 65, 17-25.	1.8	9
52	Diamond-like carbon deposited by femtosecond pulsed-laser ablation: evidence of nanocrystalline diamond. , 2002, , .		8
53	Synthesis of vanadium oxides by pulsed laser deposition and rapid thermal annealing. <i>Applied Surface Science</i> , 2020, 521, 146267.	3.1	8
54	High-Density Nanowells Formation in Ultrafast Laser-Irradiated Thin Film Metallic Glass. <i>Nano-Micro Letters</i> , 2022, 14, 103.	14.4	8

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55	Boron doped graphene synthesis using pulsed laser deposition and its electrochemical characterization. <i>Diamond and Related Materials</i> , 2021, 115, 108382.	1.8	7
56	Depth-dependence of electrical conductivity of diamondlike carbon films. <i>Applied Physics Letters</i> , 2010, 96, .	1.5	5
57	Laser induced densification of cerium gadolinium oxide: Application to single-chamber solid oxide fuel cells. <i>Applied Surface Science</i> , 2016, 374, 370-374.	3.1	2
58	<title>Laser-induced plasma plume expansion under vacuum by Monte Carlo simulation</title>. , 1998, , .		0
59	Response to "Comment on "Monte Carlo simulation of the laser-induced plasma plume expansion under vacuum: Comparison with experiments" [J. Appl. Phys. 86, 4709 (1999)]. <i>Journal of Applied Physics</i> , 1999, 186, 4711-4712.		0
60	Simulation Monte-Carlo du transport sous vide et sous gaz ambiant d'un panache plasma cr�� par ablation laser. <i>International Journal of Thermal Sciences</i> , 1999, 38, 452-459.	2.6	0
61	Femtosecond lasers: powerful tools for clean material processing. , 2002, , .		0
62	Simulation of nanosecond IR laser annealing of cerium gadolinium oxide. <i>Journal of the European Ceramic Society</i> , 2018, 38, 3875-3880.	2.8	0