

Anne Sophie Loir

List of Publications by Year in descending order

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papers

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citations

394421

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all docs

39
docs citations

39
times ranked

1175
citing authors

#	ARTICLE	IF	CITATIONS
1	Review of Graphene Growth From a Solid Carbon Source by Pulsed Laser Deposition (PLD). <i>Frontiers in Chemistry</i> , 2018, 6, 572.	3.6	78
2	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.	2.5	57
3	Nickel-incorporated amorphous carbon film deposited by femtosecond pulsed laser ablation. <i>Thin Solid Films</i> , 2005, 482, 287-292.	1.8	50
4	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.	7.8	50
5	Robust Electrografting on Self-Organized 3D Graphene Electrodes. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 1424-1433.	8.0	50
6	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.	6.5	42
7	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.	6.1	39
8	Structure of diamondlike carbon films deposited by femtosecond and nanosecond pulsed laser ablation. <i>Journal of Applied Physics</i> , 2010, 108, .	2.5	39
9	Analysis of the corrosion protective ability of PACVD silica-based coatings deposited on steel. <i>Surface and Coatings Technology</i> , 2006, 201, 347-352.	4.8	36
10	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.	2.3	32
11	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.	10.3	31
12	Study of plasma expansion induced by femtosecond pulsed laser ablation and deposition of diamond-like carbon films. <i>Applied Surface Science</i> , 2003, 208-209, 553-560.	6.1	30
13	Graphene-based textured surface by pulsed laser deposition as a robust platform for surface enhanced Raman scattering applications. <i>Applied Physics Letters</i> , 2014, 104, 041912.	3.3	30
14	Adaptive control of femtosecond laser ablation plasma emission. <i>Applied Surface Science</i> , 2009, 255, 5163-5166.	6.1	29
15	X-ray photoelectron spectroscopy study of carbon nitride coatings deposited by IR laser ablation in a remote nitrogen plasma atmosphere. <i>Surface and Interface Analysis</i> , 2001, 31, 815-824.	1.8	26
16	Duplex SiCN/DLC coating as a solution to improve frettingâ€™ Corrosion resistance of steel. <i>Wear</i> , 2009, 266, 832-838.	3.1	26
17	Deposition of tetrahedral diamond-like carbon thin films by femtosecond laser ablation for applications of hip joints. <i>Thin Solid Films</i> , 2004, 453-454, 531-536.	1.8	22
18	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.	3.1	21

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19	Electrical properties of boron-doped diamond-like carbon thin films deposited by femtosecond pulsed laser ablation. Applied Physics A: Materials Science and Processing, 2009, 94, 105-109.	2.3	20
20	Effect of boron incorporation on the structure and electrical properties of diamond-like carbon films deposited by femtosecond and nanosecond pulsed laser ablation. Thin Solid Films, 2009, 518, 1470-1474.	1.8	18
21	Study of different carbon materials for amperometric enzyme biosensor development. Materials Science and Engineering C, 2006, 26, 564-567.	7.3	17
22	Surface enhanced Raman spectroscopy platform based on graphene with one-year stability. Thin Solid Films, 2016, 604, 74-80.	1.8	17
23	Boron-doped graphene synthesis by pulsed laser co-deposition of carbon and boron. Applied Surface Science, 2020, 513, 145843.	6.1	17
24	Structural and electrical characterization of boron-containing diamond-like carbon films deposited by femtosecond pulsed laser ablation. Solid State Sciences, 2009, 11, 1738-1741.	3.2	15
25	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. Applied Surface Science, 2012, 258, 9374-9378.	6.1	13
26	Graphene synthesis on SiO ₂ using pulsed laser deposition with bilayer predominance. Materials Chemistry and Physics, 2019, 238, 121905.	4.0	13
27	Electroanalytical Performance of Nitrogen-Doped Graphene Films Processed in One Step by Pulsed Laser Deposition Directly Coupled with Thermal Annealing. Materials, 2019, 12, 666.	2.9	13
28	Study of the Si Chemical Bonding and the Semiconductive Behavior of SiCN Coatings and their Correlation with Anti-Corrosion Properties. Plasma Processes and Polymers, 2007, 4, 173-179.	3.0	12
29	Effect of nitrogen surrounding gas and plasma assistance on nitrogen incorporation in a-C:N films by femtosecond pulsed laser deposition. Applied Surface Science, 2016, 374, 104-111.	6.1	11
30	Hopping current density in amorphous carbon/crystalline silicon heterojunctions. Journal of Non-Crystalline Solids, 2006, 352, 1421-1424.	3.1	10
31	<i>In situ</i> diagnostic of the size distribution of nanoparticles generated by ultrashort pulsed laser ablation in vacuum. Applied Physics Letters, 2014, 104, 104101.	3.3	10
32	High N-content a-C:N films elaborated by femtosecond PLD with plasma assistance. Applied Surface Science, 2015, 332, 346-353.	6.1	10
33	Transfer-free graphene synthesis by nickel catalyst dewetting using rapid thermal annealing. Applied Surface Science, 2021, 555, 149492.	6.1	10
34	Structure, electrochemical properties and functionalization of amorphous CN films deposited by femtosecond pulsed laser ablation. Diamond and Related Materials, 2016, 65, 17-25.	3.9	9
35	Boron doped graphene synthesis using pulsed laser deposition and its electrochemical characterization. Diamond and Related Materials, 2021, 115, 108382.	3.9	7
36	Depth-dependence of electrical conductivity of diamondlike carbon films. Applied Physics Letters, 2010, 96, .	3.3	5

#	ARTICLE	IF	CITATIONS
37	Ãlaboration de couches minces de carbone par ablation laser femtoseconde pour application aux biomatÃriaux implantables. European Physical Journal Special Topics, 2005, 127, 193-197.	0.2	0
38	Ablation laser femtoseconde pour le dÃpÃt de DLC. European Physical Journal Special Topics, 2003, 108, 33-36.	0.2	0