Ugo Lafont

List of Publications by Year
in descending order

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75 papers	4,323 citations	136950 32 h-index	110387 64 g-index
80 all docs	80 docs citations	80 times ranked	6768 citing authors

#	Article	IF	Citations
1	Size Effects in the Li_{4+x}Ti₅O₁₂ Spinel. Journal of the American Chemical Society, 2009, 131, 17786-17792.	13.7	387
2	Building MOF bottles around phosphotungstic acid ships: One-pot synthesis of bi-functional polyoxometalate-MIL-101 catalysts. Journal of Catalysis, 2010, 269, 229-241.	6.2	311
3	Additive manufacturing â€" A review of 4D printing and future applications. Additive Manufacturing, 2018, 24, 606-626.	3.0	258
4	Assembly of Colloidal Semiconductor Nanorods in Solution by Depletion Attraction. Nano Letters, 2010, 10, 743-749.	9.1	250
5	Generation of nanoparticles by spark discharge. Journal of Nanoparticle Research, 2009, 11, 315-332.	1.9	233
6	Influence of Cross-linkers on the Cohesive and Adhesive Self-Healing Ability of Polysulfide-Based Thermosets. ACS Applied Materials & Interfaces, 2012, 4, 6280-6288.	8.0	223
7	Towards more sustainable negative electrodes in Na-ion batteries via nanostructured iron oxide. Journal of Power Sources, 2014, 245, 967-978.	7.8	168
8	Lithium Storage in Amorphous TiO[sub 2] Nanoparticles. Journal of the Electrochemical Society, 2010, 157, A582.	2.9	153
9	Dynamic Solubility Limits in Nanosized Olivine LiFePO₄. Journal of the American Chemical Society, 2011, 133, 10222-10228.	13.7	142
10	Impact of Nanosizing on Lithiated Rutile TiO₂. Chemistry of Materials, 2008, 20, 2949-2955.	6.7	138
11	In Situ Structural Changes upon Electrochemical Lithium Insertion in Nanosized Anatase TiO₂. Journal of Physical Chemistry C, 2010, 114, 1372-1378.	3.1	131
12	Fused Filament Fabrication of PEEK: A Review of Process-Structure-Property Relationships. Polymers, 2020, 12, 1665.	4.5	118
13	Increasing the reliability of solid state lighting systems via self-healing approaches: A review. Microelectronics Reliability, 2012, 52, 71-89.	1.7	104
14	Small-molecule azomethines: organic photovoltaics via Schiff base condensation chemistry. Journal of Materials Chemistry A, 2014, 2, 9474-9477.	10.3	83
15	Synthesis of mixed metallic nanoparticles by spark discharge. Journal of Nanoparticle Research, 2009, 11, 1209-1218.	1.9	80
16	Atmospheric Pressure Process for Coating Particles Using Atomic Layer Deposition. Chemical Vapor Deposition, 2009, 15, 227-233.	1.3	77
17	Reduced Enthalpy of Metal Hydride Formation for Mgâ€"Ti Nanocomposites Produced by Spark Discharge Generation. Journal of the American Chemical Society, 2013, 135, 7891-7900.	13.7	74
18	Double-doped zeolites for corrosion protection of aluminium alloys. Microporous and Mesoporous Materials, 2014, 188, 8-15.	4.4	71

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19	Electrically Conductive Polyetheretherketone Nanocomposite Filaments: From Production to Fused Deposition Modeling. Polymers, 2018, 10, 925.	4.5	71
20	Mg-doped LiNi0.5Mn1.5O4 spinel for cathode materials. Journal of Power Sources, 2007, 174, 847-851.	7.8	62
21	Microscopic Study of TiF₃ as Hydrogen Storage Catalyst for MgH₂. Journal of Physical Chemistry C, 2012, 116, 26027-26035.	3.1	53
22	Nanosized high voltage cathode material LiMg0.05Ni0.45Mn1.5O4: Structural, electrochemical and in situ investigation. Journal of Power Sources, 2009, 189, 179-184.	7.8	52
23	The impact of size effects on the electrochemical behaviour of Cu2O-coated Cu nanopillars for advanced Li-ion microbatteries. Journal of Materials Chemistry A, 2014, 2, 9574.	10.3	52
24	Nanostructured Fe2O3 and CuO composite electrodes for Li ion batteries synthesized and deposited in one step. Journal of Power Sources, 2011, 196, 6425-6432.	7.8	47
25	Study of ageing effects in polymer-in-salt electrolytes based on poly(acrylonitrile-co-butyl acrylate) and lithium salts. Electrochimica Acta, 2015, 169, 61-72.	5.2	46
26	Conjugated poly(azomethine)s via simple one-step polycondensation chemistry: synthesis, thermal and optoelectronic properties. Polymer Chemistry, 2013, 4, 4182.	3.9	41
27	SnSb micron-sized particles for Li-ion batteries. Journal of Power Sources, 2008, 180, 859-863.	7.8	40
28	Solâ€“gel one-pot synthesis in soft conditions of mesoporous silica materials ready for drug delivery system. Journal of Sol-Gel Science and Technology, 2012, 61, 455-462.	2.4	37
29	Piezoelectric and mechanical properties of fatigue resistant, self-healing PZTâ€“ionomer composites. Smart Materials and Structures, 2014, 23, 055001.	3.5	36
30	Self-healing thermally conductive adhesives. Journal of Intelligent Material Systems and Structures, 2014, 25, 67-74.	2.5	35
31	Snâ€“Co compound for Li-ion battery made via advanced electrospraying. Journal of Power Sources, 2007, 174, 428-434.	7.8	34
32	Electrospraying-assisted synthesis of tin nanoparticles for Li-ion battery electrodes. Journal of Power Sources, 2009, 189, 297-302.	7.8	34
33	SWCNT Induced Crystallization in an Amorphous All-Aromatic Poly(ether imide). Macromolecules, 2013, 46, 1492-1503.	4.8	34
34	Mesoporous silica films as catalyst support for microstructured reactors: Preparation and characterization. Chemical Engineering Journal, 2008, 135, S99-S103.	12.7	32
35	Synthesis of Magnetic Noble Metal (Nano)Particles. Langmuir, 2011, 27, 7783-7787.	3.5	32
36	Thermal conductivity of nano-filled epoxy systems. , 2009, , .		31

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37	Sb/O nano-composites produced via Spark Discharge Generation for Li-ion battery anodes. Journal of Power Sources, 2007, 174, 805-809.	7.8	30
38	Thermal behaviour of epoxy resin filled with high thermal conductivity nanopowders. , 2009, , .		30
39	Uniform metal nanoparticles produced at high yield in dense microemulsions. Journal of Colloid and Interface Science, 2012, 372, 16-23.	9.4	30
40	Strong graphene oxide nanocomposites from aqueous hybrid liquid crystals. Nature Communications, 2020, 11, 830.	12.8	30
41	Piezoelectric and mechanical properties of structured PZTâ€“epoxy composites. Journal of Materials Research, 2013, 28, 635-641.	2.6	28
42	Anomalous physical properties of ceriumâ€“lanthanum filled skutterudites. Journal of Alloys and Compounds, 2001, 323-324, 389-391.	5.5	27
43	Nanopowders of spinel-type electrode materials for Li-ion batteries. Solid State Ionics, 2006, 177, 3023-3029.	2.7	27
44	Carbon coating via an alkyl phosphonic acid grafting route: Application on TiO2. Journal of Power Sources, 2007, 174, 1104-1108.	7.8	26
45	SWCNT induced crystallization in amorphous and semi-crystalline poly(etherimide)s: Morphology and thermo-mechanical properties. Polymer, 2014, 55, 3746-3757.	3.8	25
46	Effects of alumina phases and process parameters on the multiwalled carbon nanotubes growth. Diamond and Related Materials, 2007, 16, 1144-1149.	3.9	21
47	Direct synthesis and coating of advanced nanocomposite negative electrodes for Li-ion batteries via electrospraying. Journal of Power Sources, 2011, 196, 10191-10200.	7.8	21
48	Synthesis of Anisotropic Gold Nanoparticles by Electrospraying into a Reductive-Surfactant Solution. Chemistry of Materials, 2010, 22, 1656-1663.	6.7	19
49	Environmental testing and characterization of fibre reinforced silica aerogel materials for Mars exploration. Acta Astronautica, 2019, 165, 9-16.	3.2	19
50	Preparation and dielectric properties of epoxy - BN and epoxy - AlN nanocomposites. , 2009, , .		17
51	Synthesis and dielectric properties of epoxy based nanocomposites. , 2009, , .		17
52	Self-healing materials for space applications: overview of present development and major limitations. CEAS Space Journal, 2021, 13, 341-352.	2.3	17
53	Electrostatic spray pyrolysis of LiNi0.5Mn1.5O4 films for 3D Li-ion microbatteries. Thin Solid Films, 2012, 520, 3464-3471.	1.8	16
54	High Glass Transition Materials from Sustainable Epoxy Resins with Potential Applications in the Aerospace and Space Sectors. ACS Applied Polymer Materials, 2022, 4, 3636-3646.	4.4	16

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55	Lowâ€Temperature Thermal CVD of Superblack Carbon Nanotube Coatings. Advanced Materials Interfaces, 2017, 4, 1700238.	3.7	15
56	Towards out of earth manufacturing: overview of the ESA materials and processes activities on manufacturing in space. CEAS Space Journal, 2023, 15, 69-75.	2.3	15
57	Surface-enhanced Raman scattering sensors for biomedical and molecular detection applications in space. CEAS Space Journal, 2021, 13, 509-520.	2.3	13
58	Physical and electrochemical properties of iron-doped lithiumâ€“manganese-spinels prepared by different methods. Solid State Ionics, 2008, 179, 192-196.	2.7	11
59	Solâ€“Gel and Hard Template Assisted Synthesis of 3D Nanostructured SnO₂ Electrodes. Journal of Nanoscience and Nanotechnology, 2010, 10, 4273-4278.	0.9	9
60	Effect of low vacuum environment on the fused filament fabrication process. CEAS Space Journal, 2021, 13, 369-376.	2.3	9
61	Preparation and characterization of bimetallic catalysts supported on mesoporous silica films. Studies in Surface Science and Catalysis, 2006, , 167-174.	1.5	8
62	Physical and electrochemical properties of LiFe0.5Mn1.5O4 spinel synthesized by different methods. Russian Journal of Electrochemistry, 2009, 45, 602-605.	0.9	8
63	Interaction between carbon dioxide and ionic liquids: Novel electrolyte candidates for safer Li-ion batteries. Journal of Power Sources, 2009, 189, 454-457.	7.8	7
64	Innovative CNT-based composite coatings for the stray light reduction. , 2017, , .		7
65	Synthesis of Nanoparticles of Cu, Sb, Sn, SnSb and Cu₂Sb by Densification and Atomization Process. Journal of Nanoscience and Nanotechnology, 2009, 9, 2546-2552.	0.9	6
66	Effects of inorganic nanofillers and combinations of them on the complex permittivity of epoxy-based composites. , 2010, , .		5
67	Connectivity enhancement of highly porous WO₃nanostructured thin films by in situ growth of K_{0.33}WO₃nanowires. CrystEngComm, 2014, 16, 1228-1231.	2.6	5
68	Optimisation of Through-Thickness Embedding Location of Fibre Bragg Grating Sensor in CFRP for Impact Damage Detection. Polymers, 2021, 13, 3078.	4.5	4
69	Templated and non-templated routes to mesoporous TiO2. Studies in Surface Science and Catalysis, 2005, , 355-366.	1.5	3
70	An Aerosol-Based Route to Nanostructured Powders Synthesis in Liquids. Journal of Nanoscience and Nanotechnology, 2010, 10, 5800-5809.	0.9	2
71	Mitigating the effect of space small debris on COPV in space with fiber sensors monitoring and selfâ€repairing materials. , 2019, , .		2
72	3D honeycomb for advanced manufacturing for space application. CEAS Space Journal, 0, , .	2.3	2

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73	Thin Layers of Cu2o On Three-Dimensional Copper Current Collectors for Li-Ion Microbatteries. ECS Meeting Abstracts, 2013, , .	0.0	0
74	Graphene-Based Systems for Enhanced Energy Storage. E3S Web of Conferences, 2017, 16, 09006.	0.5	0
75	Materialsâ€™ physics and chemistry for space application. CEAS Space Journal, 2021, 13, 323-324.	2.3	0