

Jean-Pierre Locquet

List of Publications by Citations

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102
papers

1,378
citations

22
h-index

32
g-index

109
ext. papers

1,592
ext. citations

3.9
avg, IF

4.54
L-index

#	Paper	IF	Citations
102	Direct growth of carbon nanotubes on carbon fibers: Effect of the CVD parameters on the degradation of mechanical properties of carbon fibers. <i>Diamond and Related Materials</i> , 2015 , 51, 39-48	3.5	114
101	High-K dielectrics for the gate stack. <i>Journal of Applied Physics</i> , 2006 , 100, 051610	2.5	95
100	Carbon nanotube-grafted carbon fiber polymer composites: Damage characterization on the micro-scale. <i>Composites Part B: Engineering</i> , 2017 , 126, 202-210	10	65
99	Growth, microstructure, and electrochemical oxidation of MBE-grown c-axis La ₂ CuO ₄ thin films. <i>Physical Review B</i> , 1996 , 54, 7512-7520	3.3	52
98	Beam energy considerations for gold nano-particle enhanced radiation treatment. <i>Physics in Medicine and Biology</i> , 2010 , 55, 4509-20	3.8	40
97	Local epitaxial growth of CuO films on MgO. <i>Physical Review B</i> , 1992 , 46, 15477-15483	3.3	39
96	Tensile-Strained GeSn MetalOxideSemiconductor Field-Effect Transistor Devices on Si(111) Using Solid Phase Epitaxy. <i>Applied Physics Express</i> , 2013 , 6, 101301	2.4	38
95	Use of Zebrafish Larvae as a Multi-Endpoint Platform to Characterize the Toxicity Profile of Silica Nanoparticles. <i>Scientific Reports</i> , 2016 , 6, 37145	4.9	34
94	Long-range order and lattice mismatch in metallic superlattices. <i>Physical Review B</i> , 1988 , 38, 3572-3575	3.3	33
93	Block-by-Block Deposition of Complex Oxide Films. <i>MRS Bulletin</i> , 1994 , 19, 39-43	3.2	31
92	Solvation Structure of Sodium Bis(fluorosulfonyl)imide-Glyme Solvate Ionic Liquids and Its Influence on Cycling of Na-MNC Cathodes. <i>Journal of Physical Chemistry B</i> , 2018 , 122, 275-289	3.4	30
91	Surface Chemistry and Interface Formation during the Atomic Layer Deposition of Alumina from Trimethylaluminum and Water on Indium Phosphide. <i>Chemistry of Materials</i> , 2013 , 25, 1078-1091	9.6	30
90	Wavelength-Dependent Nonlinear Optical Properties of Ag Nanoparticles Dispersed in a Glass Host. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 27580-27589	3.8	29
89	Preparation and characterization of composite membranes based on sulfonated PEEK and AlPO ₄ for PEMFCs. <i>Solid State Ionics</i> , 2012 , 216, 83-89	3.3	27
88	Carrier and heat transport properties of polycrystalline GeSn films on SiO ₂ . <i>Applied Physics Letters</i> , 2015 , 107, 232105	3.4	26
87	Electrodeposition of Lithium from Lithium-Containing Solvate Ionic Liquids. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 20152-20162	3.8	25
86	Solid polymer electrolytes with poly(vinyl alcohol) and piperidinium based ionic liquid for Li-ion batteries. <i>Solid State Ionics</i> , 2019 , 333, 76-82	3.3	24

85	Electric Field-Induced Oxidation of Ferromagnetic/Ferroelectric Interfaces. <i>Advanced Functional Materials</i> , 2014 , 24, 71-76	15.6	24
84	Electrochemical performance of polymer electrolytes based on Poly(vinyl alcohol)/Poly(acrylic acid) blend and Pyrrolidinium ionic liquid for lithium rechargeable batteries. <i>Electrochimica Acta</i> , 2017 , 240, 371-378	6.7	23
83	Topological to trivial insulating phase transition in stanene. <i>Nano Research</i> , 2016 , 9, 774-778	10	23
82	Production of VO ₂ thin films through post-deposition annealing of V ₂ O ₃ and VO _x films. <i>Thin Solid Films</i> , 2015 , 591, 143-148	2.2	23
81	Optical switching in hybrid VO/Si waveguides thermally triggered by lateral microheaters. <i>Optics Express</i> , 2018 , 26, 12387-12395	3.3	22
80	Growth of carbon nanotubes on carbon fibers without strength degradation. <i>Physica Status Solidi (B): Basic Research</i> , 2012 , 249, 2420-2423	1.3	22
79	Enhanced electrochemical performance of Na _{2/3} [Mn _{0.55} Ni _{0.30} Co _{0.15}]O ₂ positive electrode in sodium-ion batteries by functionalized multi-walled carbon nanotubes. <i>Electrochimica Acta</i> , 2017 , 237, 29-36	6.7	21
78	Electrochemical oxidation of La ₂ CuO ₄ thin films grown by molecular beam epitaxy. <i>Applied Physics A: Solids and Surfaces</i> , 1993 , 57, 211-215		21
77	Solvothermal synthesis and electrochemical properties of Na ₂ CoSiO ₄ and Na ₂ CoSiO ₄ /carbon nanotube cathode materials for sodium-ion batteries. <i>Electrochimica Acta</i> , 2018 , 276, 102-110	6.7	20
76	The pH-dependent photoluminescence of colloidal CdSe/ZnS quantum dots with different organic coatings. <i>Nanotechnology</i> , 2015 , 26, 255703	3.4	19
75	Altering the Biodegradation of Mesoporous Silica Nanoparticles by Means of Experimental Parameters and Surface Functionalization. <i>Journal of Nanomaterials</i> , 2018 , 2018, 1-9	3.2	18
74	Hybrid Polymer Electrolytes Based on a Poly(vinyl alcohol)/Poly(acrylic acid) Blend and a Pyrrolidinium-Based Ionic Liquid for Lithium-Ion Batteries. <i>European Journal of Inorganic Chemistry</i> , 2015 , 2015, 1290-1299	2.3	17
73	In-situ MBE growth of epitaxial CuO films with a source of activated oxygen. <i>Journal of the Less Common Metals</i> , 1990 , 164-165, 300-306		17
72	Dependence of Gold Nanoparticle Radiosensitization on Functionalizing Layer Thickness. <i>Radiation Research</i> , 2016 , 185, 384-92	3.1	16
71	Preparation and Photocatalytic Activity of Potassium- Incorporated Titanium Oxide Nanostructures Produced by the Wet Corrosion Process Using Various Titanium Alloys. <i>Nanomaterials</i> , 2015 , 5, 1397-1417	5.4	15
70	Synthesis and electrochemical behavior of Li ₂ CoSiO ₄ cathode with pyrrolidinium-based ionic liquid electrolyte for lithium ion batteries. <i>Ionics</i> , 2014 , 20, 935-941	2.7	15
69	Behavior of Sn atoms in GeSn thin films during thermal annealing: Ex-situ and in-situ observations. <i>Journal of Applied Physics</i> , 2016 , 120, 245304	2.5	15
68	Synthesis and Properties of Gold Nanoparticle Arrays Self-Organized on Surface-Deposited Lysozyme Amyloid Scaffolds. <i>Chemistry of Materials</i> , 2014 , 26, 5383-5393	9.6	14

67	Structural and Optical Properties of Amorphous and Crystalline GeSn Layers on Si. <i>ECS Journal of Solid State Science and Technology</i> , 2014 , 3, P403-P408	2	14
66	Normal State Resistivity of Underdoped YBa ₂ Cu ₃ O _x Thin Films and La _{2-x} Sr _x CuO ₄ Ultra-Thin Films under Epitaxial Strain. <i>Journal of Low Temperature Physics</i> , 1999 , 117, 681-685	1.3	13
65	Deposition and characterization of MgO/Si gate stacks grown by molecular beam epitaxy. <i>Thin Solid Films</i> , 2012 , 520, 4508-4511	2.2	12
64	A combined approach: Polyol synthesis of nanocrystalline Li ₂ FeSiO ₄ , doping multi-walled carbon nanotubes, and ionic liquid electrolyte to enhance cathode performance in Li-ion batteries. <i>Electrochimica Acta</i> , 2017 , 258, 1044-1052	6.7	12
63	Characterization of MBE-grown ultrathin films in the La _{2-x} Sr _x CuO ₄ system 1994 , 2158, 200		12
62	Ionic liquid electrolytes based on sulfonium cation for lithium rechargeable batteries. <i>Electrochimica Acta</i> , 2019 , 328, 135133	6.7	11
61	Lithium Polymer Electrolytes Based on Sulfonated Poly(ether ether ketone) for Lithium Polymer Batteries. <i>European Journal of Inorganic Chemistry</i> , 2015 , 2015, 5395-5404	2.3	11
60	Vibrational spectroscopic study of pure and silica-doped sulfonated poly(ether ether ketone) membranes. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015 , 138, 693-9	4.4	10
59	Experimental demonstration of a tunable transverse electric pass polarizer based on hybrid VO/silicon technology. <i>Optics Letters</i> , 2018 , 43, 3650-3653	3	10
58	Influence of the bulkiness of the substituent on the aggregation and magnetic properties of poly(3-alkylthiophene)s. <i>Journal of Polymer Science Part A</i> , 2014 , 52, 76-86	2.5	10
57	Room temperature Mott metal-insulator transition in V ₂ O ₃ compounds induced via strain-engineering. <i>APL Materials</i> , 2021 , 9, 021116	5.7	9
56	Multilayered graphene grafted copper wires. <i>Carbon</i> , 2018 , 139, 666-671	10.4	8
55	Finite size effects in crystalline/amorphous multilayers. <i>Journal of Physics Condensed Matter</i> , 1990 , 2, 4111-4118	1.8	8
54	Carbon Nanotube Fibers Decorated with MnO for Wire-Shaped Supercapacitor. <i>Molecules</i> , 2021 , 26,	4.8	8
53	Magnetic orders and origin of exchange bias in Co clusters embedded oxide nanocomposite films. <i>Journal of Physics Condensed Matter</i> , 2019 , 31, 155301	1.8	7
52	Auger electron spectroscopy study of semiconductor surfaces: Effect of cleaning in inert atmosphere. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2016 , 34, 041227	1.3	7
51	Facile synthesis of dual-phase lithium titanate nanowires as anode materials for lithium-ion battery. <i>Journal of Alloys and Compounds</i> , 2021 , 875, 160038	5.7	7
50	Ultrathin GeSn p-channel MOSFETs grown directly on Si(111) substrate using solid phase epitaxy. <i>Japanese Journal of Applied Physics</i> , 2015 , 54, 04DA07	1.4	6

49	Effect of doping functionalized MWCNTs on the electrochemical performances of Li ₂ CoSiO ₄ for lithium-ion batteries. <i>Ionics</i> , 2018 , 24, 1339-1347	2.7	6
48	Coupling of ferromagnetism and structural phase transition in V ₂ O ₃ /Co bilayers. <i>Journal Physics D: Applied Physics</i> , 2017 , 50, 495002	3	6
47	Influence of sol-gel precursors on the electrochemical performance of NaMn _{0.33} Ni _{0.33} Co _{0.33} O ₂ positive electrode for sodium-ion battery. <i>Ionics</i> , 2017 , 23, 645-653	2.7	6
46	Organic/Inorganic Hybrid Membranes Based on Sulfonated Poly(ether ether ketone) and Tetrabutylphosphonium Bromide Ionic Liquid for PEM Fuel Cell Applications. <i>European Journal of Inorganic Chemistry</i> , 2015 , 2015, 1282-1289	2.3	6
45	Continuous-pole-expansion method to obtain spectra of electronic lattice models. <i>Physical Review B</i> , 2014 , 89,	3.3	6
44	Anomalous millimeter-wave absorption in the superconducting phase of La _{2-x} Sr _x CuO ₄ . <i>JETP Letters</i> , 1998 , 68, 432-436	1.2	6
43	Lattice mismatch and interfacial disorder in superlattices. <i>Physica Scripta</i> , 1989 , 39, 346-350	2.6	6
42	Carrier and heat transport properties of poly-crystalline GeSn films for thin-film transistor applications. <i>Journal of Applied Physics</i> , 2019 , 126, 145105	2.5	5
41	Structural domains in antiferromagnetic LaFeO ₃ thin films. <i>International Journal of Materials Research</i> , 2006 , 97, 943-947	0.5	5
40	Development of a new direct liquid injection system for nanoparticle deposition by chemical vapor deposition using nanoparticle solutions. <i>Review of Scientific Instruments</i> , 2016 , 87, 025101	1.7	5
39	A Novel Direct Liquid Injection Low Pressure Chemical Vapor Deposition System (DLI-LPCVD) for the Deposition of Thin Films. <i>Advanced Engineering Materials</i> , 2017 , 19, 1700193	3.5	4
38	Novel strategies to improve the structural and electrochemical stability of Li ₂ CoSiO ₄ during cycling. <i>Solid State Ionics</i> , 2019 , 337, 161-169	3.3	4
37	Epitaxial growth of V ₂ O ₃ on Al ₂ O ₃ by reactive MBE. <i>Materials Research Society Symposia Proceedings</i> , 2011 , 1292, 61		4
36	Microstructural investigation of La ₂ Ti ₂ O ₇ thin films grown by MBE 1998 ,		4
35	Changes of T _c under epitaxial strain: implications for the mechanism of superconductivity 1998 ,		4
34	All-Optical Hybrid VO ₂ /Si Waveguide Absorption Switch at Telecommunication Wavelengths. <i>Journal of Lightwave Technology</i> , 2021 , 39, 2888-2894	4	4
33	Efficient Direct Band-Gap Transition in Germanium by Three-Dimensional Strain. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 30941-30949	9.5	3
32	Two dimensional V ₂ O ₃ and its experimental feasibility as robust room-temperature magnetic Chern insulator. <i>Npj 2D Materials and Applications</i> , 2021 , 5,	8.8	3

31	Case Study III: The Construction of a Nanotoxicity Database - The MOD-ENP-TOX Experience. <i>Advances in Experimental Medicine and Biology</i> , 2017 , 947, 325-344	3.6	2
30	Calculation of the capacitance-voltage characteristics of a metal-insulator-correlated oxide capacitor with dynamical mean-field theory. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2014 , 211, 440-443	1.6	2
29	Electric-Field-Induced Second-Harmonic Generation Demonstrates Different Interface Properties of Molecular Beam Epitaxy Grown MgO on Si. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 1919-1924	3.8	2
28	Direct Liquid Injection -Low Pressure Chemical Vapor Deposition of Silica Thin Films from Di-t-butoxydiacetoxysilane. <i>Advanced Engineering Materials</i> , 2017 , 19, 1700425	3.5	2
27	Synthesis of directly spinnable carbon nanotube carpets via the oxidative dehydrogenation reaction of C ₂ H ₂ -CO ₂ . <i>Materials Today: Proceedings</i> , 2017 , 4, 6966-6974	1.4	2
26	Schottky barrier modulation using ultrathin MgO for metal-silicon (100) contacts. <i>Japanese Journal of Applied Physics</i> , 2014 , 53, 121301	1.4	2
25	Electrical properties of magnesium oxide layers with different surface pretreatment on high mobility Ge _{1-x} Sn _x and Ge MOS capacitors. <i>Applied Surface Science</i> , 2014 , 291, 31-34	6.7	2
24	Epitaxial Dy ₂ O ₃ Thin Films Grown on Ge(100) Substrates by Molecular Beam Epitaxy. <i>Materials Research Society Symposia Proceedings</i> , 2010 , 1252, 1		2
23	Epitaxial growth of Dy ₂ O ₃ films on SrTiO ₃ (001) substrates by molecular beam epitaxy. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2011 , 29, 01A801	1.3	2
22	Second-harmonic generation as characterization tool for Ge/high-k dielectric interfaces 2012 ,		2
21	Critical temperature enhancement by means of substrate-induced pressure 1998 ,		2
20	Development of a fluorescence based flux sensor for thin film growth and nanoparticle deposition. <i>Review of Scientific Instruments</i> , 2016 , 87, 075112	1.7	2
19	Characterization and Photocatalytic Performance of Potassium-Doped Titanium Oxide Nanostructures Prepared via Wet Corrosion of Titanium Microspheres. <i>Journal of Nanoscience and Nanotechnology</i> , 2019 , 19, 366-374	1.3	2
18	Recent advances in hybrid VO ₂ /Si devices for enabling electro-optical functionalities 2017 ,		1
17	Simultaneous growth of three-dimensional carbon nanotubes and ultrathin graphite networks on copper. <i>Scientific Reports</i> , 2019 , 9, 12344	4.9	1
16	Modulation of the Schottky Barrier Height for CMOS advanced contacts. <i>Microelectronic Engineering</i> , 2016 , 156, 82-85	2.5	1
15	Electric Polarity-Dependent Modification of the Fe/BaTiO ₃ Interface. <i>Advanced Materials Interfaces</i> , 2016 , 3, 1500433	4.6	1
14	Solid phase epitaxial growth of Dy-germanide films on Ge(001) substrates. <i>Microelectronic Engineering</i> , 2011 , 88, 423-426	2.5	1

13	Epitaxial growth of Dy ₂ O ₃ thin films on epitaxial Dy-germanide films on Ge(001) substrates. <i>Microelectronic Engineering</i> , 2011 , 88, 411-414	2.5	1
12	Comparison of the transport mechanism in underdoped high-temperature superconductors and in spin ladders. <i>Physica C: Superconductivity and Its Applications</i> , 2000 , 337, 260-264	1.3	1
11	Microstructural investigation of La _{1.9} Sr _{0.1} CuO ₄ thin films grown by MBE 1998 ,		1
10	3D-XY critical behavior in La _{2-x} Sr _x CuO ₄ thin films probed by penetration depth measurement. <i>European Physical Journal D</i> , 1996 , 46, 1079-1080		1
9	Local electrochemical oxidation/reduction: first step towards a new lithography?. <i>Physica C: Superconductivity and Its Applications</i> , 1996 , 263, 160-163	1.3	1
8	Ultrafast orbital manipulation and Mott physics in multi-band correlated materials 2018 ,		1
7	Proof of Concept Study: Mesoporous Silica Nanoparticles, From Synthesis to Active Specific Immunotherapy. <i>Frontiers in Nanotechnology</i> , 2020 , 2,	5.5	1
6	Low-threshold power and tunable integrated optical limiter based on an ultracompact VO ₂ /Si waveguide. <i>APL Photonics</i> , 2021 , 6, 121301	5.2	0
5	The Effect of Multiple Interfaces on the Electrical Properties of MgO/Al ₂ O ₃ Multilayer Gate Stacks on Si Grown by MBE. <i>Materials Research Society Symposia Proceedings</i> , 2014 , 1691, 13		
4	High quality epitaxial Dy ₃ Ge ₅ films grown on Ge(001) substrates. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2011 , 29, 01A805	1.3	
3	Local determination of the terminating layer of SrTiO ₃ 1998 , 3481, 274		
2	The nature of the overdoped state in high T _c superconductors. <i>European Physical Journal D</i> , 1996 , 46, 1085-1086		
1	Overview on the PHRESKO Project: PHotonic REServoir COmputing. <i>Lecture Notes in Computer Science</i> , 2019 , 149-155	0.9	