

# Jean-Pierre Locquet

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Low-threshold power and tunable integrated optical limiter based on an ultracompact VO <sub>2</sub> /Si waveguide. <i>APL Photonics</i> , <b>2021</b> , 6, 121301	5.2	0
101	All-Optical Hybrid VO <sub>2</sub> /Si Waveguide Absorption Switch at Telecommunication Wavelengths. <i>Journal of Lightwave Technology</i> , <b>2021</b> , 39, 2888-2894	4	4
100	Carbon Nanotube Fibers Decorated with MnO for Wire-Shaped Supercapacitor. <i>Molecules</i> , <b>2021</b> , 26,	4.8	8
99	Efficient Direct Band-Gap Transition in Germanium by Three-Dimensional Strain. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 30941-30949	9.5	3
98	Two dimensional V <sub>2</sub> O <sub>3</sub> and its experimental feasibility as robust room-temperature magnetic Chern insulator. <i>Npj 2D Materials and Applications</i> , <b>2021</b> , 5,	8.8	3
97	Room temperature Mott metal-insulator transition in V <sub>2</sub> O <sub>3</sub> compounds induced via strain-engineering. <i>APL Materials</i> , <b>2021</b> , 9, 021116	5.7	9
96	Facile synthesis of dual-phase lithium titanate nanowires as anode materials for lithium-ion battery. <i>Journal of Alloys and Compounds</i> , <b>2021</b> , 875, 160038	5.7	7
95	Proof of Concept Study: Mesoporous Silica Nanoparticles, From Synthesis to Active Specific Immunotherapy. <i>Frontiers in Nanotechnology</i> , <b>2020</b> , 2,	5.5	1
94	Simultaneous growth of three-dimensional carbon nanotubes and ultrathin graphite networks on copper. <i>Scientific Reports</i> , <b>2019</b> , 9, 12344	4.9	1
93	Magnetic orders and origin of exchange bias in Co clusters embedded oxide nanocomposite films. <i>Journal of Physics Condensed Matter</i> , <b>2019</b> , 31, 155301	1.8	7
92	Solid polymer electrolytes with poly(vinyl alcohol) and piperidinium based ionic liquid for Li-ion batteries. <i>Solid State Ionics</i> , <b>2019</b> , 333, 76-82	3.3	24
91	Novel strategies to improve the structural and electrochemical stability of Li <sub>2</sub> CoSiO <sub>4</sub> during cycling. <i>Solid State Ionics</i> , <b>2019</b> , 337, 161-169	3.3	4
90	Carrier and heat transport properties of poly-crystalline GeSn films for thin-film transistor applications. <i>Journal of Applied Physics</i> , <b>2019</b> , 126, 145105	2.5	5
89	Ionic liquid electrolytes based on sulfonium cation for lithium rechargeable batteries. <i>Electrochimica Acta</i> , <b>2019</b> , 328, 135133	6.7	11
88	Overview on the PHRESICO Project: PHotonic REServoir Computing. <i>Lecture Notes in Computer Science</i> , <b>2019</b> , 149-155	0.9	
87	Characterization and Photocatalytic Performance of Potassium-Doped Titanium Oxide Nanostructures Prepared via Wet Corrosion of Titanium Microspheres. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2019</b> , 19, 366-374	1.3	2
86	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> , <b>2018</b> , 122, 275-289	3.4	30

85	Solvothermal synthesis and electrochemical properties of Na <sub>2</sub> CoSiO <sub>4</sub> and Na <sub>2</sub> CoSiO <sub>4</sub> /carbon nanotube cathode materials for sodium-ion batteries. <i>Electrochimica Acta</i> , <b>2018</b> , 276, 102-110	6.7	20
84	Effect of doping functionalized MWCNTs on the electrochemical performances of Li <sub>2</sub> CoSiO <sub>4</sub> for lithium-ion batteries. <i>Ionics</i> , <b>2018</b> , 24, 1339-1347	2.7	6
83	Optical switching in hybrid VO/Si waveguides thermally triggered by lateral microheaters. <i>Optics Express</i> , <b>2018</b> , 26, 12387-12395	3.3	22
82	Experimental demonstration of a tunable transverse electric pass polarizer based on hybrid VO/silicon technology. <i>Optics Letters</i> , <b>2018</b> , 43, 3650-3653	3	10
81	Multilayered graphene grafted copper wires. <i>Carbon</i> , <b>2018</b> , 139, 666-671	10.4	8
80	Ultrafast orbital manipulation and Mott physics in multi-band correlated materials <b>2018</b> ,		1
79	Altering the Biodegradation of Mesoporous Silica Nanoparticles by Means of Experimental Parameters and Surface Functionalization. <i>Journal of Nanomaterials</i> , <b>2018</b> , 2018, 1-9	3.2	18
78	Recent advances in hybrid VO <sub>2</sub> /Si devices for enabling electro-optical functionalities <b>2017</b> ,		1
77	Case Study III: The Construction of a Nanotoxicity Database - The MOD-ENP-TOX Experience. <i>Advances in Experimental Medicine and Biology</i> , <b>2017</b> , 947, 325-344	3.6	2
76	Enhanced electrochemical performance of Na <sub>2</sub> /3[Mn <sub>0.55</sub> Ni <sub>0.30</sub> Co <sub>0.15</sub> ]O <sub>2</sub> positive electrode in sodium-ion batteries by functionalized multi-walled carbon nanotubes. <i>Electrochimica Acta</i> , <b>2017</b> , 237, 29-36	6.7	21
75	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> , <b>2017</b> , 240, 371-378	6.7	23
74	A Novel Direct Liquid Injection Low Pressure Chemical Vapor Deposition System (DLI-LPCVD) for the Deposition of Thin Films . <i>Advanced Engineering Materials</i> , <b>2017</b> , 19, 1700193	3.5	4
73	Carbon nanotube-grafted carbon fiber polymer composites: Damage characterization on the micro-scale. <i>Composites Part B: Engineering</i> , <b>2017</b> , 126, 202-210	10	65
72	Direct Liquid Injection Low Pressure Chemical Vapor Deposition of Silica Thin Films from Di-t-butoxydiacetoxysilane. <i>Advanced Engineering Materials</i> , <b>2017</b> , 19, 1700425	3.5	2
71	A combined approach: Polyol synthesis of nanocrystalline Li <sub>2</sub> FeSiO <sub>4</sub> , doping multi-walled carbon nanotubes, and ionic liquid electrolyte to enhance cathode performance in Li-ion batteries. <i>Electrochimica Acta</i> , <b>2017</b> , 258, 1044-1052	6.7	12
70	Wavelength-Dependent Nonlinear Optical Properties of Ag Nanoparticles Dispersed in a Glass Host. <i>Journal of Physical Chemistry C</i> , <b>2017</b> , 121, 27580-27589	3.8	29
69	Coupling of ferromagnetism and structural phase transition in V <sub>2</sub> O <sub>3</sub> /Co bilayers. <i>Journal Physics D: Applied Physics</i> , <b>2017</b> , 50, 495002	3	6
68	Synthesis of directly spinnable carbon nanotube carpets via the oxidative dehydrogenation reaction of C <sub>2</sub> H <sub>2</sub> -CO <sub>2</sub> . <i>Materials Today: Proceedings</i> , <b>2017</b> , 4, 6966-6974	1.4	2

67	Influence of sol-gel precursors on the electrochemical performance of NaMn <sub>0.33</sub> Ni <sub>0.33</sub> Co <sub>0.33</sub> O <sub>2</sub> positive electrode for sodium-ion battery. <i>Ionics</i> , <b>2017</b> , 23, 645-653	2.7	6
66	Use of Zebrafish Larvae as a Multi-Endpoint Platform to Characterize the Toxicity Profile of Silica Nanoparticles. <i>Scientific Reports</i> , <b>2016</b> , 6, 37145	4.9	34
65	Modulation of the Schottky Barrier Height for CMOS advanced contacts. <i>Microelectronic Engineering</i> , <b>2016</b> , 156, 82-85	2.5	1
64	Electric Polarity-Dependent Modification of the Fe/BaTiO <sub>3</sub> Interface. <i>Advanced Materials Interfaces</i> , <b>2016</b> , 3, 1500433	4.6	1
63	Topological to trivial insulating phase transition in stanene. <i>Nano Research</i> , <b>2016</b> , 9, 774-778	10	23
62	Dependence of Gold Nanoparticle Radiosensitization on Functionalizing Layer Thickness. <i>Radiation Research</i> , <b>2016</b> , 185, 384-92	3.1	16
61	Development of a fluorescence based flux sensor for thin film growth and nanoparticle deposition. <i>Review of Scientific Instruments</i> , <b>2016</b> , 87, 075112	1.7	2
60	Behavior of Sn atoms in GeSn thin films during thermal annealing: Ex-situ and in-situ observations. <i>Journal of Applied Physics</i> , <b>2016</b> , 120, 245304	2.5	15
59	Development of a new direct liquid injection system for nanoparticle deposition by chemical vapor deposition using nanoparticle solutions. <i>Review of Scientific Instruments</i> , <b>2016</b> , 87, 025101	1.7	5
58	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> , <b>2016</b> , 34, 041227	1.3	7
57	The pH-dependent photoluminescence of colloidal CdSe/ZnS quantum dots with different organic coatings. <i>Nanotechnology</i> , <b>2015</b> , 26, 255703	3.4	19
56	Ultrathin GeSn p-channel MOSFETs grown directly on Si(111) substrate using solid phase epitaxy. <i>Japanese Journal of Applied Physics</i> , <b>2015</b> , 54, 04DA07	1.4	6
55	Vibrational spectroscopic study of pure and silica-doped sulfonated poly(ether ether ketone) membranes. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , <b>2015</b> , 138, 693-9	4.4	10
54	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> , <b>2015</b> , 2015, 1290-1299	2.3	17
53	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> , <b>2015</b> , 51, 39-48	3.5	114
52	Carrier and heat transport properties of polycrystalline GeSn films on SiO <sub>2</sub> . <i>Applied Physics Letters</i> , <b>2015</b> , 107, 232105	3.4	26
51	Lithium Polymer Electrolytes Based on Sulfonated Poly(ether ether ketone) for Lithium Polymer Batteries. <i>European Journal of Inorganic Chemistry</i> , <b>2015</b> , 2015, 5395-5404	2.3	11
50	Preparation and Photocatalytic Activity of Potassium-Incorporated Titanium Oxide Nanostructures Produced by the Wet Corrosion Process Using Various Titanium Alloys. <i>Nanomaterials</i> , <b>2015</b> , 5, 1397-1417	5.4	15

49	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> , <b>2015</b> , 2015, 1282-1289	2.3	6
48	Production of VO <sub>2</sub> thin films through post-deposition annealing of V <sub>2</sub> O <sub>3</sub> and VO <sub>x</sub> films. <i>Thin Solid Films</i> , <b>2015</b> , 591, 143-148	2.2	23
47	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> , <b>2014</b> , 211, 440-443	1.6	2
46	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> , <b>2014</b> , 118, 1919-1924	3.8	2
45	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> , <b>2014</b> , 52, 76-86	2.5	10
44	Electrodeposition of Lithium from Lithium-Containing Solvate Ionic Liquids. <i>Journal of Physical Chemistry C</i> , <b>2014</b> , 118, 20152-20162	3.8	25
43	Synthesis and Properties of Gold Nanoparticle Arrays Self-Organized on Surface-Deposited Lysozyme Amyloid Scaffolds. <i>Chemistry of Materials</i> , <b>2014</b> , 26, 5383-5393	9.6	14
42	Electric Field-Induced Oxidation of Ferromagnetic/Ferroelectric Interfaces. <i>Advanced Functional Materials</i> , <b>2014</b> , 24, 71-76	15.6	24
41	Structural and Optical Properties of Amorphous and Crystalline GeSn Layers on Si. <i>ECS Journal of Solid State Science and Technology</i> , <b>2014</b> , 3, P403-P408	2	14
40	Continuous-pole-expansion method to obtain spectra of electronic lattice models. <i>Physical Review B</i> , <b>2014</b> , 89,	3.3	6
39	Schottky barrier modulation using ultrathin MgO for metal-silicon (100) contacts. <i>Japanese Journal of Applied Physics</i> , <b>2014</b> , 53, 121301	1.4	2
38	The Effect of Multiple Interfaces on the Electrical Properties of MgO/Al <sub>2</sub> O <sub>3</sub> Multilayer Gate Stacks on Si Grown by MBE. <i>Materials Research Society Symposia Proceedings</i> , <b>2014</b> , 1691, 13		
37	Electrical properties of magnesium oxide layers with different surface pretreatment on high mobility Ge <sub>1-x</sub> Sn <sub>x</sub> and Ge MOS capacitors. <i>Applied Surface Science</i> , <b>2014</b> , 291, 31-34	6.7	2
36	Synthesis and electrochemical behavior of Li <sub>2</sub> CoSiO <sub>4</sub> cathode with pyrrolidinium-based ionic liquid electrolyte for lithium ion batteries. <i>Ionics</i> , <b>2014</b> , 20, 935-941	2.7	15
35	Surface Chemistry and Interface Formation during the Atomic Layer Deposition of Alumina from Trimethylaluminum and Water on Indium Phosphide. <i>Chemistry of Materials</i> , <b>2013</b> , 25, 1078-1091	9.6	30
34	Tensile-Strained GeSn Metal-Oxide-Semiconductor Field-Effect Transistor Devices on Si(111) Using Solid Phase Epitaxy. <i>Applied Physics Express</i> , <b>2013</b> , 6, 101301	2.4	38
33	Preparation and characterization of composite membranes based on sulfonated PEEK and AlPO <sub>4</sub> for PEMFCs. <i>Solid State Ionics</i> , <b>2012</b> , 216, 83-89	3.3	27
32	Deposition and characterization of MgO/Si gate stacks grown by molecular beam epitaxy. <i>Thin Solid Films</i> , <b>2012</b> , 520, 4508-4511	2.2	12

31	Growth of carbon nanotubes on carbon fibers without strength degradation. <i>Physica Status Solidi (B): Basic Research</i> , <b>2012</b> , 249, 2420-2423	1.3	22
30	Second-harmonic generation as characterization tool for Ge/high-k dielectric interfaces <b>2012</b> ,		2
29	Solid phase epitaxial growth of Dy-germanide films on Ge(001) substrates. <i>Microelectronic Engineering</i> , <b>2011</b> , 88, 423-426	2.5	1
28	Epitaxial growth of Dy <sub>2</sub> O <sub>3</sub> thin films on epitaxial Dy-germanide films on Ge(001) substrates. <i>Microelectronic Engineering</i> , <b>2011</b> , 88, 411-414	2.5	1
27	High quality epitaxial Dy <sub>3</sub> Ge <sub>5</sub> films grown on Ge(001) substrates. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , <b>2011</b> , 29, 01A805	1.3	
26	Epitaxial growth of Dy <sub>2</sub> O <sub>3</sub> films on SrTiO <sub>3</sub> (001) substrates by molecular beam epitaxy. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , <b>2011</b> , 29, 01A801	1.3	2
25	Epitaxial growth of V <sub>2</sub> O <sub>3</sub> on Al <sub>2</sub> O <sub>3</sub> by reactive MBE. <i>Materials Research Society Symposia Proceedings</i> , <b>2011</b> , 1292, 61		4
24	Epitaxial Dy <sub>2</sub> O <sub>3</sub> Thin Films Grown on Ge(100) Substrates by Molecular Beam Epitaxy. <i>Materials Research Society Symposia Proceedings</i> , <b>2010</b> , 1252, 1		2
23	Beam energy considerations for gold nano-particle enhanced radiation treatment. <i>Physics in Medicine and Biology</i> , <b>2010</b> , 55, 4509-20	3.8	40
22	Structural domains in antiferromagnetic LaFeO <sub>3</sub> thin films. <i>International Journal of Materials Research</i> , <b>2006</b> , 97, 943-947	0.5	5
21	High-K dielectrics for the gate stack. <i>Journal of Applied Physics</i> , <b>2006</b> , 100, 051610	2.5	95
20	Comparison of the transport mechanism in underdoped high-temperature superconductors and in spin ladders. <i>Physica C: Superconductivity and Its Applications</i> , <b>2000</b> , 337, 260-264	1.3	1
19	Normal State Resistivity of Underdoped YBa <sub>2</sub> Cu <sub>3</sub> O <sub>x</sub> Thin Films and La <sub>2-x</sub> Sr <sub>x</sub> CuO <sub>4</sub> Ultra-Thin Films under Epitaxial Strain. <i>Journal of Low Temperature Physics</i> , <b>1999</b> , 117, 681-685	1.3	13
18	Anomalous millimeter-wave absorption in the superconducting phase of La <sub>2-x</sub> Sr <sub>x</sub> CuO <sub>4</sub> . <i>JETP Letters</i> , <b>1998</b> , 68, 432-436	1.2	6
17	Microstructural investigation of La <sub>1.9</sub> Sr <sub>0.1</sub> CuO <sub>4</sub> thin films grown by MBE <b>1998</b> ,		1
16	Critical temperature enhancement by means of substrate-induced pressure <b>1998</b> ,		2
15	Microstructural investigation of La <sub>2</sub> Ti <sub>2</sub> O <sub>7</sub> thin films grown by MBE <b>1998</b> ,		4
14	Changes of T <sub>c</sub> under epitaxial strain: implications for the mechanism of superconductivity <b>1998</b> ,		4

- 13 Local determination of the terminating layer of SrTiO<sub>3</sub> **1998**, 3481, 274
- 12 Growth, microstructure, and electrochemical oxidation of MBE-grown c-axis La<sub>2</sub>CuO<sub>4</sub> thin films. *Physical Review B*, **1996**, 54, 7512-7520 3.3 52
- 11 3D-XY critical behavior in La<sub>2-x</sub>Sr<sub>x</sub>CuO<sub>4</sub> thin films probed by penetration depth measurement. *European Physical Journal D*, **1996**, 46, 1079-1080 1
- 10 The nature of the overdoped state in high T<sub>c</sub> superconductors. *European Physical Journal D*, **1996**, 46, 1085-1086
- 9 Local electrochemical oxidation/reduction: first step towards a new lithography?. *Physica C: Superconductivity and Its Applications*, **1996**, 263, 160-163 1.3 1
- 8 Block-by-Block Deposition of Complex Oxide Films. *MRS Bulletin*, **1994**, 19, 39-43 3.2 31
- 7 Characterization of MBE-grown ultrathin films in the La<sub>2-x</sub>Sr<sub>x</sub>CuO<sub>4</sub> system **1994**, 2158, 200 12
- 6 Electrochemical oxidation of La<sub>2</sub>CuO<sub>4</sub> thin films grown by molecular beam epitaxy. *Applied Physics A: Solids and Surfaces*, **1993**, 57, 211-215 21
- 5 Local epitaxial growth of CuO films on MgO. *Physical Review B*, **1992**, 46, 15477-15483 3.3 39
- 4 Finite size effects in crystalline/amorphous multilayers. *Journal of Physics Condensed Matter*, **1990**, 2, 4111-4118 1.8 8
- 3 In-situ MBE growth of epitaxial CuO films with a source of activated oxygen. *Journal of the Less Common Metals*, **1990**, 164-165, 300-306 17
- 2 Lattice mismatch and interfacial disorder in superlattices. *Physica Scripta*, **1989**, 39, 346-350 2.6 6
- 1 Long-range order and lattice mismatch in metallic superlattices. *Physical Review B*, **1988**, 38, 3572-3575 3.3 33