

Jacques Lefebvre

List of Publications by Year in descending order

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34
papers

1,184
citations

394421

19
h-index

434195

31
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34
all docs

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docs citations

34
times ranked

1534
citing authors

#	ARTICLE	IF	CITATIONS
1	Photoluminescence Imaging of Suspended Single-Walled Carbon Nanotubes. <i>Nano Letters</i> , 2006, 6, 1603-1608.	9.1	197
2	Enrichment of large-diameter semiconducting SWCNTs by polyfluorene extraction for high network density thin film transistors. <i>Nanoscale</i> , 2014, 6, 2328.	5.6	154
3	High-Purity Semiconducting Single-Walled Carbon Nanotubes: A Key Enabling Material in Emerging Electronics. <i>Accounts of Chemical Research</i> , 2017, 50, 2479-2486.	15.6	82
4	Excited Excitonic States in Single-Walled Carbon Nanotubes. <i>Nano Letters</i> , 2008, 8, 1890-1895.	9.1	72
5	Photoluminescence and Förster Resonance Energy Transfer in Elemental Bundles of Single-Walled Carbon Nanotubes. <i>Journal of Physical Chemistry C</i> , 2009, 113, 7536-7540.	3.1	72
6	Raman microscopy mapping for the purity assessment of chirality enriched carbon nanotube networks in thin-film transistors. <i>Nano Research</i> , 2015, 8, 2179-2187.	10.4	50
7	Sorting of Semiconducting Single-Walled Carbon Nanotubes in Polar Solvents with an Amphiphilic Conjugated Polymer Provides General Guidelines for Enrichment. <i>ACS Nano</i> , 2018, 12, 1910-1919.	14.6	50
8	Fully R2R-Printed Carbon Nanotube-Based Limitless Length of Flexible Active Matrix for Electrophoretic Display Application. <i>Advanced Electronic Materials</i> , 2020, 6, 1901431.	5.1	49
9	A hybrid enrichment process combining conjugated polymer extraction and silica gel adsorption for high purity semiconducting single-walled carbon nanotubes (SWCNT). <i>Nanoscale</i> , 2015, 7, 15741-15747.	5.6	47
10	Surface effects on network formation of conjugated polymer wrapped semiconducting single walled carbon nanotubes and thin film transistor performance. <i>Organic Electronics</i> , 2015, 26, 15-19.	2.6	38
11	Direct printing of functional 3D objects using polymerization-induced phase separation. <i>Nature Communications</i> , 2021, 12, 55.	12.8	38
12	Decomposable s-Tetrazine Copolymer Enables Single-Walled Carbon Nanotube Thin Film Transistors and Sensors with Improved Sensitivity. <i>Advanced Functional Materials</i> , 2018, 28, 1705568.	14.9	36
13	Phases of Carbon Nanotube Growth and Population Evolution from in Situ Raman Spectroscopy during Chemical Vapor Deposition. <i>Journal of Physical Chemistry C</i> , 2010, 114, 11018-11025.	3.1	32
14	Enrichment of Semiconducting Single-Walled Carbon Nanotubes with Indigo-Fluorene-Based Copolymers and Their Use in Printed Thin-Film Transistors and Carbon Dioxide Gas Sensors. <i>ACS Sensors</i> , 2020, 5, 2136-2145.	7.8	30
15	Polarized light microscopy and spectroscopy of individual single-walled carbon nanotubes. <i>Nano Research</i> , 2011, 4, 788-794.	10.4	26
16	Type- and Species-Selective Air Etching of Single-Walled Carbon Nanotubes Tracked with in Situ Raman Spectroscopy. <i>ACS Nano</i> , 2013, 7, 6507-6521.	14.6	22
17	InAs/InP quantum-dot pillar microcavities using SiO ₂ /Ta ₂ O ₅ Bragg reflectors with emission around 1.55 μ m. <i>Applied Physics Letters</i> , 2004, 84, 3235-3237.	3.3	20
18	Charge contrast imaging of suspended nanotubes by scanning electron microscopy. <i>Nanotechnology</i> , 2008, 19, 335202.	2.6	20

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19	Mechanistic Consideration of pH Effect on the Enrichment of Semiconducting SWCNTs by Conjugated Polymer Extraction. <i>Journal of Physical Chemistry C</i> , 2016, 120, 21946-21954.	3.1	20
20	The dynamics of the nucleation, growth and termination of single-walled carbon nanotubes from in situ Raman spectroscopy during chemical vapor deposition. <i>Nano Research</i> , 2009, 2, 783-792.	10.4	19
21	Photoinduced Band Gap Shift and Deep Levels in Luminescent Carbon Nanotubes. <i>ACS Nano</i> , 2012, 6, 1702-1714.	14.6	17
22	Thermodynamic and Energetic Effects on the Diameter and Defect Density in Single-Walled Carbon Nanotube Synthesis. <i>Journal of Physical Chemistry C</i> , 2013, 117, 3527-3536.	3.1	17
23	Cyanoethylated pullulan as a high-k solution processable polymer gate dielectric for SWCNT TFTs. <i>Organic Electronics</i> , 2017, 42, 329-336.	2.6	16
24	Phenanthroline Additives for Enhanced Semiconducting Carbon Nanotube Dispersion Stability and Transistor Performance. <i>ACS Applied Nano Materials</i> , 2020, 3, 12314-12324.	5.0	16
25	Real Time Hyperspectroscopy for Dynamical Study of Carbon Nanotubes. <i>ACS Nano</i> , 2016, 10, 9602-9607.	14.6	12
26	Dopant-Modulated Conjugated Polymer Enrichment of Semiconducting SWCNTs. <i>ACS Omega</i> , 2018, 3, 3413-3419.	3.5	9
27	Carbon Nanotube Transistors as Gas Sensors: Response Differentiation Using Polymer Gate Dielectrics. <i>ACS Applied Polymer Materials</i> , 2019, 1, 3269-3278.	4.4	8
28	Polymer Encapsulants for Threshold Voltage Control in Carbon Nanotube Transistors. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 36027-36034.	8.0	7
29	Visible iridescence from self-assembled periodic rippling in vertically aligned carbon nanotube forests. <i>Applied Physics Letters</i> , 2010, 97, 101901.	3.3	6
30	Excitonic imaging spectroscopy of single-walled carbon nanotubes. <i>Physica Status Solidi (B): Basic Research</i> , 2008, 245, 2247-2250.	1.5	1
31	Decoration of suspended single-walled carbon nanotubes with soft-landed size-selected metal nanoparticles. <i>Thin Solid Films</i> , 2020, 699, 137907.	1.8	1
32	Study of self-assembled InAs quantum dots on InP nano-templates by low voltage scanning electron microscopy cathodoluminescence. <i>Microscopy and Microanalysis</i> , 2002, 8, 712-713.	0.4	0
33	Dielectrics & Electrostatics: Their Effect on Carbon Nanotube Network Field-Effect Transistors and Gas Sensors. <i>ECS Meeting Abstracts</i> , 2018, , .	0.0	0
34	(Invited) Challenges in Quantifying the Purity of Semiconducting Single-Walled Carbon Nanotubes. <i>ECS Meeting Abstracts</i> , 2020, MA2020-01, 756-756.	0.0	0