J-S Lauret

List of Publications by Year
in descending order

86	3,626	109321	138484
papers	citations	35 h-index	58 g-index

86	86	86	5487
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Optical Investigation of Broadband White-Light Emission in Self-Assembled Organicâ€“Inorganic Perovskite (C₆H₁₁NH₃)₂PbBr₄. Journal of Physical Chemistry C, 2015, 119, 23638-23647.	3.1	279
2	Optical spectroscopy of two-dimensional layered (C_6H_5C_2H_4-NH_3)_2-PbI_4 perovskite. Optics Express, 2010, 18, 5912.	3.4	254
3	Solid-State Physics Perspective on Hybrid Perovskite Semiconductors. Journal of Physical Chemistry C, 2015, 119, 10161-10177.	3.1	205
4	Synthesis and optical properties of novel organicâ€“inorganic hybrid nanolayer structure semiconductors. Acta Materialia, 2009, 57, 3301-3309.	7.9	127
5	Strong exciton-photon coupling in a microcavity containing layered perovskite semiconductors. Applied Physics Letters, 2006, 89, 171110.	3.3	113
6	Room-Temperature Optical Tunability and Inhomogeneous Broadening in 2D-Layered Organicâ€“Inorganic Perovskite Pseudobinary Alloys. Journal of Physical Chemistry Letters, 2014, 5, 3958-3963.	4.6	93
7	Origin of the excitonic recombinations in hexagonal boron nitride by spatially resolved cathodoluminescence spectroscopy. Journal of Applied Physics, 2007, 102, .	2.5	91
8	Particularities of surface plasmonâ€“exciton strong coupling with large Rabi splitting. New Journal of Physics, 2008, 10, 065017.	2.9	89
9	Preparations and Characterizations of Luminescent Two Dimensional Organic-inorganic Perovskite Semiconductors. Materials, 2010, 3, 3385-3406.	2.9	86
10	Single photon emission from graphene quantum dots at room temperature. Nature Communications, 2018, 9, 3470.	12.8	86
11	Strong excitonâ€“photon coupling at room temperature in microcavities containing two-dimensional layered perovskite compounds. New Journal of Physics, 2008, 10, 065007.	2.9	83
12	Narrow Linewidth Excitonic Emission in Organicâ€“Inorganic Lead Iodide Perovskite Single Crystals. Journal of Physical Chemistry Letters, 2016, 7, 5093-5100.	4.6	83
13	Negatively Curved Nanographene with Heptagonal and [5]Helicene Units. Journal of the American Chemical Society, 2020, 142, 14814-14819.	13.7	81
14	Widely Tunable Single-Photon Source from a Carbon Nanotube in the Purcell Regime. Physical Review Letters, 2016, 116, 247402.	7.8	79
15	Impact of Reabsorption on the Emission Spectra and Recombination Dynamics of Hybrid Perovskite Single Crystals. Journal of Physical Chemistry Letters, 2017, 8, 2977-2983.	4.6	79
16	Excitonâ€“Exciton Annihilation in Two-Dimensional Halide Perovskites at Room Temperature. Journal of Physical Chemistry Letters, 2019, 10, 5153-5159.	4.6	74
17	Bandgap Engineering of Graphene Nanoribbons by Control over Structural Distortion. Journal of the American Chemical Society, 2018, 140, 7803-7809.	13.7	68
18	Fast growth of monocrystalline thin films of 2D layered hybrid perovskite. CrystEngComm, 2017, 19, 2598-2602.	2.6	66

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19	Photostability of 2D Organic-Inorganic Hybrid Perovskites. Materials, 2014, 7, 4789-4802.	2.9	64
20	Optical properties of multiwall boron nitride nanotubes. Physica Status Solidi (B): Basic Research, 2007, 244, 4147-4151.	1.5	63
21	Îâ€Stacking Functionalization of Carbon Nanotubes through Micelle Swelling. ChemPhysChem, 2010, 11, 1667-1672.	2.1	63
22	Many-body effects in electronic bandgaps of carbon nanotubes measured by scanning tunnelling spectroscopy. Nature Materials, 2010, 9, 235-238.	27.5	62
23	Cathodoluminescence imaging and spectroscopy on a single multiwall boron nitride nanotube. Chemical Physics Letters, 2007, 442, 372-375.	2.6	49
24	Third-order optical nonlinearities of carbon nanotubes in the femtosecond regime. Applied Physics Letters, 2004, 85, 3572-3574.	3.3	48
25	Quantum efficiency of energy transfer in noncovalent carbon nanotube/porphyrin compounds. Applied Physics Letters, 2010, 97, .	3.3	48
26	Synthesis and optical properties of novel organicâ€“inorganic hybrid UV (Râ€“NH₃)₂PbCl₄semiconductors. Journal of Materials Chemistry, 2011, 21, 466-474.	6.7	45
27	Emission of hybrid organic-inorganic exciton/plasmon mixed states. Applied Physics Letters, 2007, 90, 091107.	3.3	44
28	Functionalization of Carbon Nanotubes through Polymerization in Micelles: A Bridge between the Covalent and Noncovalent Methods. Chemistry of Materials, 2013, 25, 2700-2707.	6.7	42
29	Exciton dynamics and non-linearities in two-dimensional hybrid organic perovskites. Journal of Applied Physics, 2016, 119, .	2.5	39
30	Strong exciton-photon coupling in microcavities containing new fluorophenethylamine based perovskite compounds. Optics Express, 2012, 20, 10399.	3.4	38
31	Unifying the Low-Temperature Photoluminescence Spectra of Carbon Nanotubes: The Role of Acoustic Phonon Confinement. Physical Review Letters, 2014, 113, 057402.	7.8	38
32	Two-Dimensional Perovskite Activation with an Organic Luminophore. ACS Applied Materials & Interfaces, 2015, 7, 21763-21769.	8.0	38
33	Chirality Dependence of the Absorption Cross Section of Carbon Nanotubes. Physical Review Letters, 2013, 111, 137402.	7.8	37
34	Excitation Transfer in Functionalized Carbon Nanotubes. ChemPhysChem, 2008, 9, 1250-1253.	2.1	36
35	UV polaritonic emission from a perovskite-based microcavity. Applied Physics Letters, 2008, 93, 081101.	3.3	36
36	Elastic Exciton-Exciton Scattering in Photoexcited Carbon Nanotubes. Physical Review Letters, 2011, 107, 127401.	7.8	35

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37	Light harvesting with non covalent carbon nanotube/porphyrin compounds. Chemical Physics, 2013, 413, 45-54.	1.9	35
38	Optical properties of carbon nanotubes in a composite material: The role of dielectric screening and thermal expansion. Journal of Applied Physics, 2009, 105, 094323.	2.5	32
39	Synthesis of New Perovskite Luminescent Nanoparticles in the Visible Range. Chemistry of Materials, 2009, 21, 210-214.	6.7	32
40	Detection of a Biexciton in Semiconducting Carbon Nanotubes Using Nonlinear Optical Spectroscopy. Physical Review Letters, 2012, 109, 197402.	7.8	31
41	Fluorescence from graphene nanoribbons of well-defined structure. Carbon, 2017, 119, 235-240.	10.3	30
42	Room-Temperature Cavity Polaritons with 3D Hybrid Perovskite: Toward Large-Surface Polaritonic Devices. ACS Photonics, 2019, 6, 1804-1811.	6.6	30
43	Transmission Electron Microscopy and UVâ€“visâ€“IR Spectroscopy Analysis of the Diameter Sorting of Carbon Nanotubes by Gradient Density Ultracentrifugation. Advanced Functional Materials, 2009, 19, 2219-2223.	14.9	29
44	Time-Resolved Investigation of Excitation Energy Transfer in Carbon Nanotubeâ€“Porphyrin Compounds. Journal of Physical Chemistry C, 2011, 115, 23283-23292.	3.1	29
45	Bandgap photoluminescence of semiconducting single-wall carbon nanotubes. Physica E: Low-Dimensional Systems and Nanostructures, 2004, 21, 1057-1060.	2.7	28
46	Synthesis, optical properties and photostability of novel fluorinated organicâ€“inorganic hybrid (Râ€“NH₃)₂PbX₄ semiconductors. Journal Physics D: Applied Physics, 2013, 46, 135105.	2.8	28
47	Charge Transfer and Tunable Ambipolar Effect Induced by Assembly of Cu(II) Binuclear Complexes on Carbon Nanotube Field Effect Transistor Devices. Journal of the American Chemical Society, 2012, 134, 7896-7901.	13.7	24
48	Exploiting One-Dimensional Excitonâ€“Phonon Coupling for Tunable and Efficient Single-Photon Generation with a Carbon Nanotube. Nano Letters, 2017, 17, 4184-4188.	9.1	24
49	Tetrazine molecules as an efficient electronic diversion channel in 2D organicâ€“inorganic perovskites. Materials Horizons, 2021, 8, 1547-1560.	12.2	24
50	Local Field Effects in the Energy Transfer between a Chromophore and a Carbon Nanotube: A Single-Nanocompound Investigation. ACS Nano, 2012, 6, 8796-8802.	14.6	23
51	Structural Properties of Double-Walled Carbon Nanotubes Driven by Mechanical Interlayer Coupling. ACS Nano, 2017, 11, 4840-4847.	14.6	21
52	Monolithic microcavity with carbon nanotubes as active material. Applied Physics Letters, 2013, 102, 153102.	3.3	20
53	High-Q planar organicâ€“inorganic Perovskite-based microcavity. Optics Letters, 2012, 37, 5061.	3.3	19
54	Single layer nano graphene platelets derived from graphite nanofibres. Nanoscale, 2016, 8, 8810-8818.	5.6	19

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55	Solution-Processed Grapheneâ€“Nanographene van der Waals Heterostructures for Photodetectors with Efficient and Ultralong Charge Separation. Journal of the American Chemical Society, 2021, 143, 17109-17116.	13.7	19
56	Diameter-selective non-covalent functionalization of carbon nanotubes with porphyrin monomers. Nanoscale, 2016, 8, 2326-2332.	5.6	18
57	Optical anisotropy of single walled carbon nanotubes investigated by spectroscopic ellipsometry. Carbon, 2012, 50, 4673-4679.	10.3	17
58	Using Low Temperature Photoluminescence Spectroscopy to Investigate CH3NH3PbI3 Hybrid Perovskite Degradation. Molecules, 2016, 21, 885.	3.8	17
59	Fermi level shift in carbon nanotubes by dye confinement. Carbon, 2019, 149, 772-780.	10.3	17
60	Phonon-induced dephasing in single-wall carbon nanotubes. Physical Review B, 2011, 84, .	3.2	16
61	Quantum confinement of zero-dimensional hybrid organic-inorganic polaritons at room temperature. Applied Physics Letters, 2014, 104, .	3.3	15
62	Strong reduction of exciton-phonon coupling in single-wall carbon nanotubes of high crystalline quality: Insight into broadening mechanisms and exciton localization. Physical Review B, 2015, 91, .	3.2	14
63	Optical Investigation of Onâ€Surface Synthesized Armchair Graphene Nanoribbons. Physica Status Solidi (B): Basic Research, 2017, 254, 1700223.	1.5	14
64	Diameter dependence of the optoelectronic properties of single walled carbon nanotubes determined by ellipsometry. Carbon, 2015, 83, 32-39.	10.3	12
65	Ultrafast pumpâ€“probe measurements in single wall carbon nanotubes. Physica E: Low-Dimensional Systems and Nanostructures, 2003, 17, 380-383.	2.7	11
66	Excitonic homogeneous broadening in single-wall carbon nanotubes. Chemical Physics, 2013, 413, 102-111.	1.9	11
67	Properties of Functionalized Carbon Nanotubes and Their Interaction with a Metallic Substrate Investigated by Scanning Tunneling Microscopy. Journal of Physical Chemistry C, 2017, 121, 24264-24271.	3.1	11
68	Superlocalization of Excitons in Carbon Nanotubes at Cryogenic Temperature. Nano Letters, 2019, 19, 7210-7216.	9.1	10
69	Excitonic signatures in the optical response of singleâ€wall carbon nanotubes. Physica Status Solidi (B): Basic Research, 2012, 249, 900-906.	1.5	9
70	Exciton Cooling in 2D Perovskite Nanoplatelets: Rationalized Carrier-Induced Stark and Phonon Bottleneck Effects. Journal of Physical Chemistry Letters, 2022, 13, 393-399.	4.6	9
71	Davydov Splitting and Self-Organization in a Porphyrin Layer Noncovalently Attached to Single Wall Carbon Nanotubes. Nano Letters, 2017, 17, 6778-6782.	9.1	8
72	Hot Brownian Motion of Optically Levitated Nanodiamonds. ACS Photonics, 2022, 9, 420-425.	6.6	8

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73	Directing random lasing emission using cavity exciton-polaritons. Optics Express, 2020, 28, 39739.	3.4	7
74	Vibronic effect and influence of aggregation on the photophysics of graphene quantum dots. Nanoscale, 2022, 14, 3826-3833.	5.6	7
75	Controlling the kinetics of the non-covalent functionalization of carbon nanotubes using sub-cmc dilutions in a co-surfactant environment. Nanoscale, 2017, 9, 2646-2651.	5.6	6
76	Single-walled carbon nanotube/polystyrene coreâ€“shell hybrids: synthesis and photoluminescence properties. Journal of Materials Chemistry C, 2018, 6, 4786-4792.	5.5	5
77	UV polaritons at room temperature in a microcavity containing perovskites. Journal of Luminescence, 2009, 129, 1985-1988.	3.1	4
78	Confinement in single walled carbon nanotubes investigated by spectroscopic ellipsometry. Thin Solid Films, 2014, 571, 395-398.	1.8	4
79	Vibronic fingerprints in the luminescence of graphene quantum dots at cryogenic temperature. Journal of Chemical Physics, 2022, 156, 104302.	3.0	4
80	Thermometry of an optically levitated nanodiamond. AVS Quantum Science, 2022, 4, .	4.9	4
81	Interplay of spectral diffusion and phonon-broadening in individual photo-emitters: the case of carbon nanotubes. Nanoscale, 2018, 10, 683-689.	5.6	3
82	Thermally Induced Synthesis of Anthraceneâ€‚Pyreneâ€•and Naphthaleneâ€Fused Porphyrins. ChemistryOpen, 2021, 10, 997-1003.	1.9	3
83	Strong-coupling regime at room temperature in one-dimensional microcavities containing ultraviolet-emitting perovskites. Superlattices and Microstructures, 2010, 47, 10-15.	3.1	2
84	Photostability of Single-Walled Carbon Nanotubes/Polymer Coreâ€“Shell Hybrids as Telecom Wavelength Emitters. ACS Applied Nano Materials, 2020, 3, 7291-7296.	5.0	1
85	Synthesis of highly calibrated CsPbBr₃ nanocrystal perovskites by soft chemistry. Chemical Communications, 2022, 58, 5960-5963.	4.1	1
86	Excitonic nonlinearities in singleâ€wall carbon nanotubes. Physica Status Solidi (B): Basic Research, 2012, 249, 907-913.	1.5	0