Jacques Peretti

List of Publications by Year
in descending order

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45 papers	1,936 citations	331670 21 h-index	289244 40 g-index
46 all docs	46 docs citations	46 times ranked	2223 citing authors

#	Article	IF	Citations
1	In-vivo, in-situ, light-tunable manipulation of cells' biomechanics on a photoactive azobenzene bio-substrate. , 2022, , .		0
2	Quantitative correlation of hot electron emission to Auger recombination in the active region of c-plane blue III-N LEDs. Applied Physics Letters, 2021, 119, .	3.3	10
3	Ultrafast dynamics of hot carriers in a quasiâ€“two-dimensional electron gas on InSe. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 21962-21967.	7.1	10
4	Evidence for trap-assisted Auger recombination in MBE grown InGaN quantum wells by electron emission spectroscopy. Applied Physics Letters, 2020, 116, .	3.3	23
5	Light tunable azopolymers : Photomechanical phenomena and multifunctional materials. , 2019, , .		0
6	Direct measurement of hot-carrier generation in a semiconductor barrier heterostructure: Identification of the dominant mechanism for thermal droop. Physical Review B, 2019, 100, .	3.2	16
7	Polarized Luminescence of Anisotropic LaPO₄:Eu Nanocrystal Polymorphs. Journal of the American Chemical Society, 2018, 140, 9512-9517.	13.7	48
8	Identification of low-energy peaks in electron emission spectroscopy of InGaN/GaN light-emitting diodes. Journal of Applied Physics, 2018, 124, .	2.5	10
9	Ultrafast electron dynamics reveal the high potential of InSe for hot-carrier optoelectronics. Physical Review B, 2018, 97, .	3.2	15
10	Monitoring the orientation of rare-earth-doped nanorods for flow shear tomography. Nature Nanotechnology, 2017, 12, 914-919.	31.5	65
11	Localization landscape theory of disorder in semiconductors. III. Application to carrier transport and recombination in light emitting diodes. Physical Review B, 2017, 95, .	3.2	95
12	Localization landscape theory of disorder in semiconductors. II. Urbach tails of disordered quantum well layers. Physical Review B, 2017, 95, .	3.2	78
13	Optical Patterning of Solâ€“Gel Silica Coatings. Advanced Optical Materials, 2016, 4, 313-320.	7.3	2
14	The efficiency challenge of nitride lightâ€emitting diodes for lighting. Physica Status Solidi (A) Applications and Materials Science, 2015, 212, 899-913.	1.8	112
15	Low-energy electro- and photo-emission spectroscopy of GaN materials and devices. Journal of Applied Physics, 2015, 117, 112814.	2.5	4
16	A closer look at the light-induced changes in the mechanical properties of azobenzene-containing polymers by statistical nanoindentation. Journal of Materials Chemistry C, 2015, 3, 11055-11065.	5.5	27
17	Optimized combination of intrinsic and form birefringence in oriented LaPO4 nanorod assemblies. Applied Physics Letters, 2014, 105, 061102.	3.3	14
18	Identiï¬cation of Auger effect as the dominant mechanism for efficiency droop of LEDs. Proceedings of SPIE, 2014, , .	0.8	5

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19	Origin of electrons emitted into vacuum from InGaN light emitting diodes. Applied Physics Letters, 2014, 105, .	3.3	36
20	Determination of the first satellite valley energy in the conduction band of wurtzite GaN by near-band-gap photoemission spectroscopy. Physical Review B, 2014, 89, .	3.2	38
21	Direct Measurement of Auger Electrons Emitted from a Semiconductor Light-Emitting Diode under Electrical Injection: Identification of the Dominant Mechanism for Efficiency Droop. Physical Review Letters, 2013, 110, 177406.	7.8	564
22	Optically Anisotropic Thin Films by Shearâ€Oriented Assembly of Colloidal Nanorods. Advanced Materials, 2013, 25, 3295-3300.	21.0	46
23	Evidence of Two Distinct Mechanisms Driving Photoinduced Matter Motion in Thin Films Containing Azobenzene Derivatives. Journal of Physical Chemistry B, 2011, 115, 1363-1367.	2.6	58
24	Transport and magnetic properties of Fe/GaAs Schottky junctions for spin polarimetry applications. Journal of Applied Physics, 2011, 109, 113708.	2.5	13
25	Surface Plasmon-Enhanced Fluorescence Spectroscopy on Silver Based SPR Substrates. Journal of Physical Chemistry C, 2010, 114, 22582-22589.	3.1	33
26	Apertureless near-field optical microscopy: A study of the local tip field enhancement using photosensitive azobenzene-containing films. Journal of Applied Physics, 2003, 94, 2060-2072.	2.5	101
27	Spin-dependent electron transport in ferromagnetic bilayers: Application to three-dimensional spin detectors. Journal of Applied Physics, 2002, 91, 8408.	2.5	1
28	Electron spin polarimeters based on the exchange asymmetry in ferromagnetic layers. , 2002, , .		0
29	Near-field optical patterning on azo-hybrid solâ€“gel films. Applied Physics Letters, 2001, 79, 4562-4564.	3.3	66
30	<title>Design of optical components and optical data storage in photochromic sol-gel films containing dithienylethene or azobenzene derivatives</title>. , 2000, 3943, 32.		6
31	Remanent photoinduced birefringence in thin photochromic solâ€“gel films. Applied Physics Letters, 1999, 74, 1657-1659.	3.3	22
32	Imaging of magnetic domains with scanning tunneling optical microscopy. Journal of Applied Physics, 1998, 83, 6834-6836.	2.5	21
33	Spin-Dependent Transmission of Electrons through the Ferromagnetic Metal Base of a Hot-Electron Transistorlike System. Physical Review Letters, 1998, 80, 2425-2428.	7.8	45
34	Near-field magneto-optics with polarization sensitive STOM. Ultramicroscopy, 1995, 57, 270-276.	1.9	19
35	Magneto-optical Effects Enhanced by Surface Plasmons in Metallic Multilayer Films. Physical Review Letters, 1994, 73, 3584-3587.	7.8	165
36	Near-field magneto-optical microscopy. Microscopy Microanalysis Microstructures, 1994, 5, 381-388.	0.4	11

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37	High-resolution energy analysis of field-assisted photoemission: A spectroscopic image of hot-electron transport in semiconductors. Physical Review B, 1993, 47, 3603-3619.	3.2	21
38	Analytical descriptions of the band structure of direct-band-gap zinc-blende-structure semiconductors in thekâ‹…pKane model. Physical Review B, 1991, 44, 7993-7998.	3.2	8
39	Band structure of indium phosphide from near-band-gap photoemission. Physical Review B, 1991, 44, 7999-8008.	3.2	22
40	Novel photoemission approach to hot-electron transport in semiconductors. Physical Review Letters, 1990, 64, 1682-1685.	7.8	15
41	Photoemission of metal-semiconductor structures: Novel spectroscopy for high field transport. Solid-State Electronics, 1989, 32, 1681-1684.	1.4	1
42	Surface spectroscopy studies of Pb monolayers on Si(111). Surface Science, 1988, 204, 57-68.	1.9	78
43	The formation of the Pb/Si(111) interface studied byin situellipsometry and surface spectroscopy. Physica Scripta, 1988, 38, 169-171.	2.5	6
44	Auger effect identified as main cause of efficiency droop in LEDs. SPIE Newsroom, 0, , .	0.1	3
45	Lightâ€tunable optical cell manipulation via photoactive azobenzeneâ€containing thin film bioâ€substrate. Nano Select, 0, , .	3.7	1