

Herve Aubin

List of Publications by Year in descending order

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papers

2,300
citations

279798

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57
docs citations

57
times ranked

2944
citing authors

#	ARTICLE	IF	CITATIONS
1	Ferroelectric Gating of Narrow Band-Gap Nanocrystal Arrays with Enhanced Light-Matter Coupling. ACS Photonics, 2021, 8, 259-268.	6.6	23
2	Disorder-Promoted Splitting in Quasiparticle Interference at Nesting Vectors. Journal of Physical Chemistry Letters, 2021, 12, 3127-3134.	4.6	7
3	Spin-Orbit induced phase-shift in Bi ₂ Se ₃ Josephson junctions. Nature Communications, 2019, 10, 126.	12.8	97
4	Impact of dimensionality and confinement on the electronic properties of mercury chalcogenide nanocrystals. Nanoscale, 2019, 11, 3905-3915.	5.6	18
5	Field-Effect Transistor and Photo-Transistor of Narrow-Band-Gap Nanocrystal Arrays Using Ionic Glasses. Nano Letters, 2019, 19, 3981-3986.	9.1	23
6	Investigation of the Self-Doping Process in HgSe Nanocrystals. Physica Status Solidi (A) Applications and Materials Science, 2018, 215, 1700294.	1.8	4
7	Strong coupling and periodic potential at the Pb/Sb(111) interface. Physical Review B, 2018, 98, .	3.2	2
8	Quantum confinement effects in Pb nanocrystals grown on InAs. Physical Review B, 2018, 97, .	3.2	6
9	Quantum constriction at the interface between a superconducting nanocrystal and an electron accumulation layer. Physica C: Superconductivity and Its Applications, 2018, 552, 34-37.	1.2	0
10	Nernst effect studies of Cooper pair fluctuations. Physica C: Superconductivity and Its Applications, 2018, 552, 38-41.	1.2	0
11	Intraband transition in self-doped narrow band gap colloidal quantum dots. , 2017, , .		0
12	Electronic structure of CdSe-ZnS 2D nanoplatelets. Applied Physics Letters, 2017, 110, .	3.3	21
13	Charge Dynamics and Optoelectronic Properties in HgTe Colloidal Quantum Wells. Nano Letters, 2017, 17, 4067-4074.	9.1	48
14	Superconducting parity effect across the Anderson limit. Nature Communications, 2017, 8, 14549.	12.8	19
15	Transport in a Single Self-Doped Nanocrystal. ACS Nano, 2017, 11, 1222-1229.	14.6	23
16	HgSe Self-Doped Nanocrystals as a Platform to Investigate the Effects of Vanishing Confinement. ACS Applied Materials & Interfaces, 2017, 9, 36173-36180.	8.0	40
17	Shiba Bound States across the Mobility Edge in Doped InAs Nanowires. Physical Review Letters, 2017, 119, 097701.	7.8	8
18	Electronic properties of (Sb;Bi) ₂ Te ₃ colloidal heterostructured nanoplates down to the single particle level. Scientific Reports, 2017, 7, 9647.	3.3	7

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19	Double Fe-impurity charge state in the topological insulator Bi ₂ Se ₃ . Applied Physics Letters, 2017, 111, .	3.3	7
20	Phototransport in colloidal nanoplatelets array. Physica Status Solidi C: Current Topics in Solid State Physics, 2016, 13, 526-529.	0.8	4
21	Engineering the Charge Transfer in all 2D Graphene-Nanoplatelets Heterostructure Photodetectors. Scientific Reports, 2016, 6, 24909.	3.3	49
22	Infrared Photodetection Based on Colloidal Quantum-Dot Films with High Mobility and Optical Absorption up to THz. Nano Letters, 2016, 16, 1282-1286.	9.1	150
23	Nernst effect in metals and superconductors: a review of concepts and experiments. Reports on Progress in Physics, 2016, 79, 046502.	20.1	144
24	Effects of electron-phonon interactions on the electron tunneling spectrum of PbS quantum dots. Physical Review B, 2015, 92, .	3.2	16
25	Investigating the n- and p-Type Electrolytic Charging of Colloidal Nanoplatelets. Journal of Physical Chemistry C, 2015, 119, 21795-21799.	3.1	57
26	Quasi-2D Colloidal Semiconductor Nanoplatelets for Narrow Electroluminescence. Advanced Functional Materials, 2014, 24, 295-302.	14.9	208
27	Electrolyte-Gated Colloidal Nanoplatelets-Based Phototransistor and Its Use for Bicolor Detection. Nano Letters, 2014, 14, 2715-2719.	9.1	94
28	Metal Oxide Resistive Switching: Evolution of the Density of States Across the Metal-Insulator Transition. Physical Review Letters, 2014, 112, 066803.	7.8	15
29	Verwey transition in single magnetite nanoparticles. Physical Review B, 2014, 90, .	3.2	22
30	In-Vacuum Projection of Nanoparticles for On-Chip Tunneling Spectroscopy. ACS Nano, 2013, 7, 1487-1494.	14.6	8
31	Nanoparticles charge response from electrostatic force microscopy. Applied Physics Letters, 2013, 102, .	3.3	7
32	Gate tunable conductivity of hybrid gold nanocrystal-semiconducting matrix thin films. Journal of Materials Chemistry, 2012, 22, 15013.	6.7	0
33	Electron Cotunneling Transport in Gold Nanocrystal Arrays. Physical Review Letters, 2011, 107, 176803.	7.8	36
34	Electric-field-driven phase transition in vanadium dioxide. Physical Review B, 2011, 84, .	3.2	118
35	Nernst effect as a probe of superconducting fluctuations in disordered thin films. New Journal of Physics, 2009, 11, 055071.	2.9	36
36	Synthesis of Monodisperse Superconducting Lead Nanocrystals. Journal of Physical Chemistry C, 2009, 113, 7120-7122.	3.1	15

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37	Nernst effect in the phase-fluctuating superconductor InO_x . Europhysics Letters, 2008, 83, 57005.	2.0	27
38	Thickness-tuned superconductor-insulator transitions under magnetic field in $a\text{-NbSi}$. Physical Review B, 2008, 78, .	3.2	20
39	Thickness-tuned superconductor-insulator transitions in $a\text{-Nb}_c\text{Si}_{1-x}$. Physical Review B, 2007, 76.	3.2	48
40	Thickness and Magnetic Field-tuned Superconductor-Insulator Transitions in $a\text{-Nb}_{15}\text{Si}_{85}$. AIP Conference Proceedings, 2006, .	0.4	0
41	Observation of the Nernst signal generated by fluctuating Cooper pairs. Nature Physics, 2006, 2, 683-686.	16.7	109
42	Magnetic-field-induced quantum superconductor-insulator transition in $\text{Nb}_{0.15}\text{Si}_{0.85}$. Physical Review B, 2006, 73, .	3.2	59
43	Thermal Transport in the Hidden-Order State of URu_2Si_2 . Physical Review Letters, 2005, 94, 156405.	7.8	89
44	Extracting Parameters from the Current-Voltage Characteristics of Organic Field-Effect Transistors. Advanced Functional Materials, 2004, 14, 1069-1074.	14.9	170
45	Detection and control of broken symmetries with Andreev bound state tunneling spectroscopy: effects of atomic-scale disorder. Physica C: Superconductivity and Its Applications, 2004, 408-410, 804-806.	1.2	3
46	Planar tunneling spectroscopy of high-temperature superconductors: Andreev bound states and broken symmetries. Physica C: Superconductivity and Its Applications, 2003, 387, 162-168.	1.2	34
47	Solution-growth of ultra-thin, insulating layers of zirconia for passivation and tunnel junction fabrication on YBCO thin films. IEEE Transactions on Applied Superconductivity, 2003, 13, 801-804.	1.7	5
48	Andreev Bound States at the Onset of Phase Coherence in $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_8$. Physical Review Letters, 2002, 89, 177001.	7.8	44
49	In-plane quasi-particle tunneling into $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_8$. Physica C: Superconductivity and Its Applications, 2000, 341-348, 1681-1682.	1.2	1
50	Spectroscopy of the Andreev bound state of high-temperature superconductors: Measurements of quasiparticle scattering, anisotropy and broken time-reversal symmetry. Physica C: Superconductivity and Its Applications, 2000, 341-348, 1633-1637.	1.2	1
51	Title is missing!. Journal of Superconductivity and Novel Magnetism, 2000, 13, 703-708.	0.5	1
52	Features of heat transport in organic and cuprate superconductors. Journal of Low Temperature Physics, 1999, 117, 1089-1098.	1.4	19
53	Angular Position of Nodes in the Superconducting Gap of YBCO. Physical Review Letters, 1997, 78, 2624-2627.	7.8	119
54	Universal Heat Conduction in $\text{YBa}_2\text{Cu}_3\text{O}_{6.9}$. Physical Review Letters, 1997, 79, 483-486.	7.8	200

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55	Quasi-particle vortex scattering in UPt ₃ . Physics Letters, Section A: General, Atomic and Solid State Physics, 1997, 234, 64-68.	2.1	15
56	Thermal conductivity as a probe of unconventional superconducting gap. Zeitschrift für Physik B-Condensed Matter, 1996, 103, 149-151.	1.1	4