Aristeidis Karalis

List of Publications by Year
in descending order

24 papers	6,582 citations	840776 11 h-index	1058476 14 g-index
24 all docs	24 docs citations	24 times ranked	4567 citing authors

#	Article	IF	Citations
1	Wireless Power Transfer via Strongly Coupled Magnetic Resonances. Science, 2007, 317, 83-86.	12.6	4,634
2	Efficient wireless non-radiative mid-range energy transfer. Annals of Physics, 2008, 323, 34-48.	2.8	1,185
3	Surface-Plasmon-Assisted Guiding of Broadband Slow and Subwavelength Light in Air. Physical Review Letters, 2005, 95, 063901.	7.8	189
4	Roughness losses and volume-current methods in photonic-crystal waveguides. Applied Physics B: Lasers and Optics, 2005, 81, 283-293.	2.2	158
5	Coupled-mode theory for general free-space resonant scattering of waves. Physical Review A, 2007, 75, .	2.5	122
6	Efficient weakly-radiative wireless energy transfer: An EIT-like approach. Annals of Physics, 2009, 324, 1783-1795.	2.8	117
7	â€˜Squeezingâ€™ near-field thermal emission for ultra-efficient high-power thermophotovoltaic conversion. Scientific Reports, 2016, 6, 28472.	3.3	61
8	Temporal coupled-mode theory model for resonant near-field thermophotovoltaics. Applied Physics Letters, 2015, 107, .	3.3	33
9	Plasmonic-Dielectric Systems for High-Order Dispersionless Slow or Stopped Subwavelength Light. Physical Review Letters, 2009, 103, 043906.	7.8	31
10	Quasi-normal mode theory of the scattering matrix, enforcing fundamental constraints for truncated expansions. Physical Review Research, 2021, 3, .	3.6	16
11	Transparent and â€˜opaqueâ€™ conducting electrodes for ultra-thin highly-efficient near-field thermophotovoltaic cells. Scientific Reports, 2017, 7, 14046.	3.3	14
12	Discrete-mode cancellation mechanism for high-Q integrated optical cavities with small modal volume. Optics Letters, 2004, 29, 2309.	3.3	11
13	Analytical Criteria for Designing Multiresonance Filters in Scattering Systems, with Application to Microwave Metasurfaces. Physical Review Applied, 2022, 17, .	3.8	6
14	Plasmonic Metasurface â€œBulletsâ€•and other â€œMoving Objectsâ€• Spatiotemporal Dispersion Cancellation for Linear Passive Subwavelength Slow Light. Physical Review Letters, 2019, 123, 067403.	7.8	5
15	Plasmonics: tailoring dispersion, and thermal emission. , 2007, , .		0
16	Unwired energy questions asked, answered. Physics Today, 2007, 60, 17-17.	0.3	0
17	Electricity unplugged. Physics World, 2009, 22, 22-25.	0.0	0
18	Tailoring and cancelling dispersion of slow or stopped and subwavelength surface-plasmonodielectric-polaritonic light. Proceedings of SPIE, 2009, , .	0.8	0

#	Article	IF	Citations
19	Front-electrode design for efficient near-field ThermoPhotoVoltaics. , 2018, , .		0
20	Plasmonic meta-surfaces dispersionless both temporally and spatially. , 2018, , .		0
21	Quasi-normal mode theory applied to elliptic-filter metasurface design. , 2021, , .		0
22	Tailoring and Cancelling Dispersion of Slow or Stopped and Subwavelength Surface-PlasmonoDielectric-Polaritonic Light. , 2008, , .		0
23	Transparent conducting electrodes for efficient near-field thermophotovoltaics. , 2017, , .		0
24	Front-electrode design for efficient near-field thermophotovoltaics. , 2019, , .		0