Sean Molesky

List of Publications by Year
in descending order

19 papers	2,109 citations	567281 15 h-index	794594 19 g-index
19 all docs	19 docs citations	19 times ranked	2357 citing authors

#	Article	IF	Citations
1	Inverse design in nanophotonics. Nature Photonics, 2018, 12, 659-670.	31.4	1,014
2	Broadband super-Planckian thermal emission from hyperbolic metamaterials. Applied Physics Letters, 2012, 101, .	3.3	298
3	High temperature epsilon-near-zero and epsilon-near-pole metamaterial emitters for thermophotovoltaics. Optics Express, 2013, 21, A96.	3.4	234
4	Controlling thermal emission with refractory epsilon-near-zero metamaterials via topological transitions. Nature Communications, 2016, 7, 11809.	12.8	233
5	Thermal excitation of plasmons for near-field thermophotovoltaics. Applied Physics Letters, 2014, 105, .	3.3	40
6	Fundamental Limits to Radiative Heat Transfer: The Limited Role of Nanostructuring in the Near-Field. Physical Review Letters, 2020, 124, 013904.	7.8	35
7	Fundamental limits to radiative heat transfer: Theory. Physical Review B, 2020, 101, .	3.2	31
8	Dynamic measurement of near-field radiative heat transfer. Scientific Reports, 2017, 7, 13916.	3.3	30
9	Inverse-designed photon extractors for optically addressable defect qubits. Optica, 2020, 7, 1805.	9.3	28
10	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi mathvariant="double-struck">T</mml:mi></mml:mrow></mml:math> Operator Bounds on Angle-Integrated Absorption and Thermal Radiation for Arbitrary Objects. Physical Review Letters, 2019, 123, 257401.	7.8	26
11	Global<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi mathvariant="double-struck">T</mml:mi></mml:math>operator bounds on electromagnetic scattering: Upper bounds on far-field cross sections. Physical Review Research, 2020, 2, .	3.6	26
12	Material scaling and frequency-selective enhancement of near-field radiative heat transfer for lossy metals in two dimensions via inverse design. Physical Review B, 2019, 99, .	3.2	23
13	Physical limits in electromagnetism. Nature Reviews Physics, 2022, 4, 543-559.	26.6	22
14	Inverse design of compact multimode cavity couplers. Optics Express, 2018, 26, 26713.	3.4	19
15	Fundamental limits to attractive and repulsive Casimir-Polder forces. Physical Review A, 2020, 101, .	2.5	16
16	Dual-band quasi-coherent radiative thermal source. Journal of Quantitative Spectroscopy and Radiative Transfer, 2018, 216, 99-104.	2.3	13
17	Hierarchical mean-field<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi mathvariant="double-struck">T</mml:mi></mml:math>operator bounds on electromagnetic scattering: Upper bounds on near-field radiative Purcell enhancement. Physical Review Research, 2020, 2, .	3.6	12
18	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi mathvariant="double-struck">T</mml:mi></mml:math> -operator limits on optical communication: Metaoptics, computation, and input-output transformations. Physical Review Research, 2022, 4, .	3.6	7

#	Article	IF	Citations
19	Channel-based algebraic limits to conductive heat transfer. Physical Review B, 2020, 102, .	3.2	2