RESEARCH & PUBLICATIONS

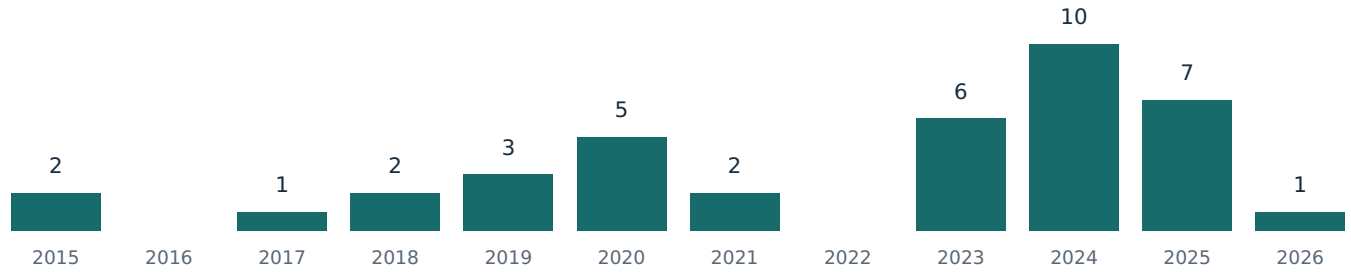
Georgia T Papadakis

A publication record at a glance

39	790	17
ARTICLES	CITATIONS	h-INDEX

PUBLICATION ACTIVITY

Articles by publication year



MOST CITED IN THIS LIST

Experimental Demonstration of Dynamic Thermal Regulation Using Vanadium Dioxide Thin Films — 82
2020 Scientific Reports

Optical Magnetism in Planar Metamaterial Heterostructures — 81
2018 Nature Communications

Gate-Tunable Near-Field Heat Transfer — 59
2019 ACS Photonics

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Ordered by publication year, newest first

2026

01 **Far-Field Heat Transfer and Monochromatic Thermal Currents in a Cylindrical Nonreciprocal Cavity**
Physical Review Research · 8, 023293
https://exaly.com/article/213412754
0 citations

2025

02 **Switchable Narrowband Diffuse Thermal Emission With an In3SbTe2-Based Planar Structure**
Laser and Photonics Reviews · 19, 2401438
https://exaly.com/article/194891482
19 citations

03 **Energy-Efficient Thermally Smart Windows With Tunable Properties Across the Near- and Mid-Infrared Ranges.**
Nanophotonics · 14, 4259-4272
https://exaly.com/article/202004622
5 citations

04 **Weyl Points in a Twisted Multilayer Photonic System**
Journal unavailable
https://exaly.com/article/205073973
0 citations

05 **Fundamental Limitations of Thermoradiative Energy Conversion**
Journal unavailable · 4, 043001
https://exaly.com/article/205678287
5 citations

06 **The Critical Role of Substrates in Mitigating the Power–Efficiency Trade-Off in Near-Field Thermophotovoltaics**
ACS Applied Materials & Interfaces · 17, 66641-66647
https://exaly.com/article/207794227
1 citations

07 **Leveraging In-Plane Anisotropic Materials for Lithography-Free Omnidirectional Thermal Emission Control**
Physical Review B · 112, 235312
https://exaly.com/article/207819741
0 citations

08 **Mid-Infrared Chirality and Chiral Thermal Emission From Twisted α-MoO3**
Nature Communications · 16, 11086
https://exaly.com/article/208270599
14 citations

2024

09 **Lithography-Free Directional Control of Thermal Emission**
Nanophotonics · 13, 763-771
https://exaly.com/article/175196008
16 citations

Ordered by publication year, newest first

2024 / continued

10 **Design of Narrowband Infrared Emitters by Hybridizing Guided-Mode Resonance Structures With Van Der Waals Materials**
Optical Materials · 148, 114845
https://exaly.com/article/175224330
0 citations

11 **Thermodynamic Figure of Merit for Thermophotovoltaics**
Journal of Photonics for Energy · 14, 042402
https://exaly.com/article/176083328
14 citations

12 **Deeply Subwavelength Mid-Infrared Phase Retardation With α-MoO3 Flakes**
Communications Materials · 5, 1-7
https://exaly.com/article/176407663
11 citations

13 **Photonics for Energy Special Issue**
ACS Photonics · 11, 1360-1361
https://exaly.com/article/184672651
1 citations

14 **Hot-Carrier Thermophotovoltaic Systems**
Journal of Optics (United Kingdom) · 26, 075902
https://exaly.com/article/185136573
2 citations

15 **Nonreciprocity in Transmission Mode With Planar Structures for Arbitrarily Polarized Light [Invited]**
Optical Materials Express · 14, 2201-2209
https://exaly.com/article/188099796
5 citations

16 **Weyl Points in a Twisted Multilayer Photonic System**
Applied Physics Letters
https://exaly.com/article/194076855
3 citations

17 **Nonreciprocal Thermal Emission From a Planar Structure in Transmission Mode**
Journal unavailable
https://exaly.com/article/195201086
0 citations

18 **Introducing the Special Section on Thermophotovoltaic Systems**
Journal of Photonics for Energy · 14, 042401
https://exaly.com/article/196154186
1 citations

2023

19 **Tight Bounds and the Role of Optical Loss in Polariton-Mediated Near-Field Heat Transfer**
Physical Review Applied · 19, 034013
https://exaly.com/article/161274543
6 citations

Ordered by publication year, newest first

2023 / continued

20 **Perspective on Near-Field Radiative Heat Transfer** — 42 citations
Applied Physics Letters
https://exaly.com/article/161423239

21 **Dynamic Modulation of Thermal Emission—A Tutorial** — 38 citations
Journal of Applied Physics
https://exaly.com/article/161530236

22 **Maximal Violation of Kirchhoff's Law in Planar Heterostructures** — 18 citations
Physical Review Research · 5, L022051
https://exaly.com/article/163674267

23 **Design Rules for Active Control of Narrowband Thermal Emission Using Phase-Change Materials** — 12 citations
Physical Review Applied · 19, L051002
https://exaly.com/article/164580321

24 **Thermodynamic Performance Bounds for Radiative Heat Engines** — 18 citations
Physical Review Applied · 20, L061003
https://exaly.com/article/174089455

2021

25 **Deep-Subwavelength Thermal Switch via Resonant Coupling in Monolayer Hexagonal Boron Nitride** — 20 citations
Physical Review Applied
https://exaly.com/article/80618838

26 **Thermodynamics of Light Management in Near-Field Thermophotovoltaics** — 25 citations
Physical Review Applied · 16, 064063
https://exaly.com/article/135406337

2020

27 **Experimental Demonstration of Dynamic Thermal Regulation Using Vanadium Dioxide Thin Films** — 82 citations
Scientific Reports · 10, 1-10
https://exaly.com/article/76212988

28 **Nonreciprocal Metamaterial Obeying Time-Reversal Symmetry** — 58 citations
Physical Review Letters · 124, 257403
https://exaly.com/article/77139997

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2020 / continued

29 **Nonreciprocal Radiative Heat Transfer Between Two Planar Bodies** — 38 citations
Physical Review B · 101, 085407
https://exaly.com/article/77352496

30 **Broadening Near-Field Emission for Performance Enhancement in Thermophotovoltaics** — 50 citations
Nano Letters · 20, 1654-1661
https://exaly.com/article/77391354

31 **Nonreciprocal Radiative Heat Transfer Between Two Planar Bodies** — 0 citations
Journal unavailable
https://exaly.com/article/120121550

2019

32 **Gate-Tunable Near-Field Heat Transfer** — 59 citations
ACS Photonics · 6, 709-719
https://exaly.com/article/72849220

33 **Mimicking Surface Polaritons for Unpolarized Light With High-Permittivity Materials** — 17 citations
Physical Review Materials · 3, 015202
https://exaly.com/article/85653039

34 **Experimental Demonstration of Tunable Graphene-Polaritonic Hyperbolic Metamaterial** — 37 citations
Optics Express · 27, 30225-30232
https://exaly.com/article/86939381

2018

35 **Optical Magnetism in Planar Metamaterial Heterostructures** — 81 citations
Nature Communications · 9, 1-9
https://exaly.com/article/69104470

36 **Ultralight Angstrom-Scale Optimal Optical Reflectors** — 11 citations
ACS Photonics · 5, 384-389
https://exaly.com/article/69603324

2017

37 **Artificial Magnetism in One-Dimensional Multilayer Metamaterials** — 1 citations
Journal unavailable
https://exaly.com/article/111069418

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2015

38 **Field-Effect Induced Tunability in Hyperbolic Metamaterials** 46 citations

Physical Review B · 92, 184101

https://exaly.com/article/60290779

39 **Retrieval of Material Parameters for Uniaxial Metamaterials** 34 citations

Physical Review B · 91, 155406

https://exaly.com/article/60296776

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