

CITATION REPORT

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Overcoming the quantum efficiency-lifetime tradeoff of photocathodes by coating with atomically thin two-dimensional nanomaterials

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Npj 2D Materials and Applications, 2018, 2, .

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#	Paper	IF	Citations
20	Perspectives on Designer Photocathodes for X-ray Free-Electron Lasers: Influencing Emission Properties with Heterostructures and Nanoengineered Electronic States. <i>Physical Review Applied</i> , 2018 , 10,	4.3	27
19	From Electronic Structure to Design Principles for Photocathodes: Cu-Ba Alloys. <i>Physical Review Applied</i> , 2019 , 11,	4.3	1
18	Study on a long-life photocathode with an CsBr protective layer for an rf electron gun. <i>Japanese Journal of Applied Physics</i> , 2019 , 58, 066005	1.4	2
17	Structural and electronic properties of multifunctional carbon composites of organometal halide perovskites. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 25020-25031	13	5
16	First-principles many-body study of the electronic and optical properties of CsKSb, a semiconducting material for ultra-bright electron sources. <i>Journal of Physics Condensed Matter</i> , 2019 , 31, 014002	1.8	11
15	Computational Screening of Atomically Thin Two-Dimensional Nanomaterial-Coated Cs ₃ Sb Heterostructures for High-Performance Photocathodes. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 26396-26403	3.8	26403
14	Demonstration of nitrogen-incorporated ultrananocrystalline diamond photocathodes in a RF gun environment. <i>Applied Physics Letters</i> , 2020 , 117, 171903	3.4	1
13	The effects of oxygen-induced phase segregation on the interfacial electronic structure and quantum efficiency of CsSb photocathodes. <i>Journal of Chemical Physics</i> , 2020 , 153, 144705	3.9	7
12	Computational Screening of Photocathodes Based on Layered MXene coated Cs ₃ Sb Heterostructures. <i>Wuli Xuebao/Acta Physica Sinica</i> , 2021 , 0-0	0.6	
11	Effect of vacancy defects on photoelectric properties of K ₂ CsSb photocathode. <i>Optik</i> , 2021 , 232, 166555	5.5	1
10	Two-Dimensional Nanomaterials as Anticorrosion Surface Coatings for Uranium Metal: Physical Insights from First-Principles Theory. <i>ACS Applied Nano Materials</i> , 2021 , 4, 5038-5046	5.6	1
9	Ab Initio Quantum-Mechanical Predictions of Semiconducting Photocathode Materials. <i>Micromachines</i> , 2021 , 12,	3.3	2
8	Rapid thermal emittance and quantum efficiency mapping of a cesium telluride cathode in an rf photoinjector using multiple laser beamlets. <i>Physical Review Accelerators and Beams</i> , 2020 , 23,	1.8	4
7	Computational screening of two-dimensional coatings for semiconducting photocathodes. <i>Physical Review Materials</i> , 2020 , 4,	3.2	5
6	Theory of field emission from dielectric coated surfaces. <i>Physical Review Research</i> , 2020 , 2,	3.9	10
5	Theory of laser-induced photoemission from a metal surface with nanoscale dielectric coating. <i>Journal of Applied Physics</i> , 2022 , 131, 064903	2.5	1
4	Photoemission from Alkali Photocathodes through an Atomically Thin Protection Layer.. <i>ACS Applied Materials & Interfaces</i> , 2021 ,	9.5	2

- 3 Quantum Systems for Enhanced High Energy Particle Physics Detectors. *Frontiers in Physics*, 10, 3.9 1
- 2 Cesium intercalation of graphene: A 2D protective layer on alkali antimonide photocathode. **2022**, 10, 111115 1
- 1 Work function lowering of LaB6 by monolayer hexagonal boron nitride coating for improved photo- and thermionic-cathodes. **2023**, 122, 141901 0