

# Michal Baranowski

## List of Publications by Year in descending order

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62  
papers

1,689  
citations

331670

21  
h-index

289244

40  
g-index

63  
all docs

63  
docs citations

63  
times ranked

2830  
citing authors

#	ARTICLE	IF	CITATIONS
1	Excitons in Metal-Halide Perovskites. <i>Advanced Energy Materials</i> , 2020, 10, 1903659.	19.5	240
2	Revealing the nature of photoluminescence emission in the metal-halide double perovskite Cs <sub>2</sub> AgBiBr <sub>6</sub> . <i>Journal of Materials Chemistry C</i> , 2019, 7, 8350-8356.	5.5	149
3	Probing the Interlayer Exciton Physics in a MoS <sub>2</sub> /MoSe <sub>2</sub> /MoS <sub>2</sub> van der Waals Heterostructure. <i>Nano Letters</i> , 2017, 17, 6360-6365.	9.1	118
4	Moiré Intralayer Excitons in a MoSe <sub>2</sub> /MoS <sub>2</sub> Heterostructure. <i>Nano Letters</i> , 2018, 18, 7651-7657.	9.1	113
5	Dark excitons and the elusive valley polarization in transition metal dichalcogenides. <i>2D Materials</i> , 2017, 4, 025016.	4.4	71
6	Highly Oriented Atomically Thin Ambipolar MoSe <sub>2</sub> Grown by Molecular Beam Epitaxy. <i>ACS Nano</i> , 2017, 11, 6355-6361.	14.6	64
7	Broad Tunability of Carrier Effective Masses in Two-Dimensional Halide Perovskites. <i>ACS Energy Letters</i> , 2020, 5, 3609-3616.	17.4	54
8	Excitonic Properties of Low-Band-Gap Lead-Tin Halide Perovskites. <i>ACS Energy Letters</i> , 2019, 4, 615-621.	17.4	51
9	Photoreflectance, photoluminescence, and microphotoluminescence study of optical transitions between delocalized and localized states in GaN. $\langle \text{mml:mrow} / \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mn} \rangle 0.02 \langle \text{mml:mn} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:math} \rangle \text{As} \langle \text{mml:math} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:math} \rangle \text{Ga}$	3.2	49
10	Tuning the Excitonic Properties of the 2D (PEA) <sub>2</sub> (MA) <sub>n-1</sub> Pb <sub>n</sub> I <sub>3n+1</sub> Perovskite Family via Quantum Confinement. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 1638-1643.	4.6	49
11	Revealing Excitonic Phonon Coupling in (PEA) <sub>2</sub> (MA) <sub>n-1</sub> Pb <sub>n</sub> I <sub>3n+1</sub> 2D Layered Perovskites. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 5830-5835.	4.6	47
12	Exciton binding energy and effective mass of CsPbCl <sub>3</sub> : a magneto-optical study. <i>Photonics Research</i> , 2020, 8, A50.	7.0	43
13	Giant Fine Structure Splitting of the Bright Exciton in a Bulk MAPbBr <sub>3</sub> Single Crystal. <i>Nano Letters</i> , 2019, 19, 7054-7061.	9.1	41
14	Phase-Transition-Induced Carrier Mass Enhancement in 2D Ruddlesden-Popper Perovskites. <i>ACS Energy Letters</i> , 2019, 4, 2386-2392.	17.4	38
15	Brightening of dark excitons in 2D perovskites. <i>Science Advances</i> , 2021, 7, eabk0904.	10.3	34
16	Beyond Quantum Efficiency Limitations Originating from the Piezoelectric Polarization in Light-Emitting Devices. <i>ACS Photonics</i> , 2019, 6, 1963-1971.	6.6	33
17	Optical properties of GaAsBi/GaAs quantum wells: Photoreflectance, photoluminescence and time-resolved photoluminescence study. <i>Semiconductor Science and Technology</i> , 2015, 30, 094005.	2.0	30
18	Intervalley Scattering of Interlayer Excitons in a MoS <sub>2</sub> /MoSe <sub>2</sub> /MoS <sub>2</sub> Heterostructure in High Magnetic Field. <i>Nano Letters</i> , 2018, 18, 3994-4000.	9.1	27

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19	Symmetry Breakdown in Franckeite: Spontaneous Strain, Rippling, and Interlayer Moiré. Nano Letters, 2020, 20, 1141-1147.	9.1	25
20	Carrier dynamics between delocalized and localized states in type-II GaAsSb/GaAs quantum wells. Applied Physics Letters, 2011, 98, .	3.3	24
21	Non equilibrium anisotropic excitons in atomically thin ReS <sub>2</sub> . 2D Materials, 2019, 6, 015012.	4.4	23
22	Impact of wetting-layer density of states on the carrier relaxation process in low indium content self-assembled (In,Ga)As/GaAs quantum dots. Physical Review B, 2013, 87, .	3.2	21
23	Static and Dynamic Disorder in Triple-Cation Hybrid Perovskites. Journal of Physical Chemistry C, 2018, 122, 17473-17480.	3.1	21
24	Quantification of Exciton Fine Structure Splitting in a Two-Dimensional Perovskite Compound. Journal of Physical Chemistry Letters, 2022, 13, 4463-4469.	4.6	20
25	Model of hopping excitons in GaInNAs: simulations of sharp lines in micro-photoluminescence spectra and their dependence on the excitation power and temperature. Journal of Physics Condensed Matter, 2011, 23, 205804.	1.8	19
26	Multicolor emission from intermediate band semiconductor ZnO <sub>1-x</sub> Sex. Scientific Reports, 2017, 7, 44214.	3.3	19
27	Temperature evolution of carrier dynamics in GaN <sub>x</sub> PyAs <sub>1-y</sub> alloys. Journal of Applied Physics, 2015, 117, .	2.5	18
28	The impact of hexagonal boron nitride encapsulation on the structural and vibrational properties of few layer black phosphorus. Nanotechnology, 2019, 30, 195201.	2.6	18
29	Perspective on the physics of two-dimensional perovskites in high magnetic field. Applied Physics Letters, 2021, 118, .	3.3	18
30	Dynamics of localized excitons in Ga <sub>0.69</sub> In <sub>0.31</sub> N <sub>0.015</sub> As <sub>0.985</sub> /GaAs quantum well: Experimental studies and Monte-Carlo simulations. Applied Physics Letters, 2012, 100, 202105.	3.3	17
31	Negative Thermal Quenching of Efficient White-Light Emission in a 1D Ladder-Like Organic/Inorganic Hybrid Material. Advanced Optical Materials, 2019, 7, 1900763.	7.3	17
32	Time-resolved photoluminescence studies of annealed 1.3- $\mu$ m GaInNAsSb quantum wells. Nanoscale Research Letters, 2014, 9, 81.	5.7	15
33	Excitation efficiency determines the upconversion luminescence intensity of $\text{F}^{2-}\text{NaYF}_4\text{:Er}^{3+},\text{Yb}^{3+}$ nanoparticles in magnetic fields up to 70 T. Nanoscale, 2020, 12, 20300-20307.	5.6	15
34	Impact of photodoping on inter- and intralayer exciton emission in a MoS <sub>2</sub> /MoSe <sub>2</sub> /MoS <sub>2</sub> heterostructure. Applied Physics Letters, 2018, 113, 062107.	3.3	12
35	Nitrogen-related changes in exciton localization and dynamics in GaInNAs/GaAs quantum wells grown by metalorganic vapor phase epitaxy. Applied Physics A: Materials Science and Processing, 2015, 118, 479-486.	2.3	11
36	Interlayer excitons in MoSe <sub>2</sub> /2D perovskite hybrid heterostructures – the interplay between charge and energy transfer. Nanoscale, 2022, 14, 8085-8095.	5.6	11

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37	Nonradiative Energy Transfer and Selective Charge Transfer in a WS <sub>2</sub> /PEA/PbI <sub>4</sub> Heterostructure. ACS Applied Materials & Interfaces, 2021, 13, 33677-33684.	8.0	10
38	Carrier dynamics in type-II GaAsSb/GaAs quantum wells. Journal of Physics Condensed Matter, 2012, 24, 185801.	1.8	9
39	Steady state and femtosecond spectroscopy of Perylimide Red dye in porous and sol-gel glasses. Chemical Physics Letters, 2012, 546, 171-175.	2.6	9
40	Observation of A <sub>1g</sub> Raman mode splitting in few layer black phosphorus encapsulated with hexagonal boron nitride. Nanoscale, 2017, 9, 19298-19303.	5.6	9
41	The influence of nitrogen and antimony on the optical quality of InNAs(Sb) alloys. Journal Physics D: Applied Physics, 2016, 49, 115105.	2.8	7
42	Hopping Excitons in GaInNAs - Simulation of Micro- and Macrophotoluminescence Spectra. Acta Physica Polonica A, 2011, 120, 899-901.	0.5	6
43	Molecular dynamics of poly(ethylene 2,6-naphthalate)-polycarbonate composite by nuclear magnetic resonance. Applied Magnetic Resonance, 2005, 29, 221-229.	1.2	5
44	Time resolved photoluminescence of In(N)As quantum dots embedded in GaIn(N)As/GaAs quantum well. Applied Physics Letters, 2010, 96, .	3.3	5
45	Time-resolved photoluminescence studies of the optical quality of InGaN/GaN multi-quantum well grown by MOCVD-antimony surfactant effect. Semiconductor Science and Technology, 2012, 27, 105027.	2.0	5
46	Effects of band anticrossing on the temperature dependence of the band gap of ZnSe <sub>1-x</sub> O <sub>x</sub> alloys. Semiconductor Science and Technology, 2017, 32, 015005.	2.0	5
47	Contactless electroreflectance, photoluminescence and time-resolved photoluminescence of GaInNAs quantum wells obtained by the MBE method with N-irradiation. Semiconductor Science and Technology, 2011, 26, 045012.	2.0	4
48	Design and Optical Characterization of Novel InGaN/GaN Multiple Quantum Well Structures by Metal Organic Vapor Phase Epitaxy. Japanese Journal of Applied Physics, 2013, 52, 08JL10.	1.5	4
49	Enhancement of photoluminescence from GaInNAsSb quantum wells upon annealing: improvement of material quality and carrier collection by the quantum well. Journal of Physics Condensed Matter, 2013, 25, 065801.	1.8	4
50	Unified Model of Nanosecond Charge Recombination in Closed Reaction Centers from <i>Rhodobacter sphaeroides</i> : Role of Protein Polarization Dynamics. Journal of Physical Chemistry B, 2016, 120, 4890-4896.	2.6	4
51	Study of delocalized and localized states in ZnSeO layers with photoluminescence, micro-photoluminescence, and time-resolved photoluminescence. Journal of Applied Physics, 2019, 125, .	2.5	4
52	Two Dimensional Perovskites/Transition Metal Dichalcogenides Heterostructures: Puzzles and Challenges. Israel Journal of Chemistry, 2022, 62, .	2.3	4
53	Strain induced lifting of the charged exciton degeneracy in monolayer MoS <sub>2</sub> on a GaAs nanomembrane. 2D Materials, 2022, 9, 045006.	4.4	4
54	Theoretical Studies of the Influence of Temperature on Photoluminescence Dynamics in GaInNAs/GaAs Quantum Wells. Japanese Journal of Applied Physics, 2013, 52, 08JL04.	1.5	3

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55	Photoluminescence characterization of InGaN/InGaN quantum wells grown by plasma-assisted molecular beam epitaxy: Impact of nitrogen and gallium fluxes. <i>Physica Status Solidi (B): Basic Research</i> , 2015, 252, 983-988.	1.5	3
56	Direct evidence of photoluminescence broadening enhancement by local electric field fluctuations in polar InGaN/GaN quantum wells. <i>Japanese Journal of Applied Physics</i> , 2018, 57, 020305.	1.5	3
57	Influence of temperature on spin polarization dynamics in dilute nitride semiconductors – Role of nonparamagnetic centers. <i>Journal of Applied Physics</i> , 2015, 118, .	2.5	3
58	Monte Carlo Simulations of the Influence of Localization Centres on Carrier Dynamics in GaInNAs Quantum Wells. <i>Acta Physica Polonica A</i> , 2012, 122, 1022-1025.	0.5	3
59	Influence of oversized cations on electronic dimensionality of d-MAPbI <sub>3</sub> crystals. <i>Journal of Materials Chemistry C</i> , 2020, 8, 7928-7934.	5.5	1
60	Time Resolved Photoluminescence Study of the Wide (Cd,Mn)Te/(Cd,Mg)Te Quantum Well. <i>Acta Physica Polonica A</i> , 2013, 124, 895-897.	0.5	0
61	Magneto-spectroscopy studies provide direct evidence for the coupling of excitons to organic ligand vibrations in 2D RP perovskites. , 0, , .		0
62	Mechanism of Electronic Coupling in Hybrid Transition Metal Dichalcogenide-2D Perovskite Heterostructures. , 0, , .		0