

Aleksandra Radenovic

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

123
papers

21,495
citations

45
h-index

141
g-index

141
ext. papers

24,556
ext. citations

11.4
avg, IF

7.06
L-index

#	Paper	IF	Citations
123	Zero Bias Power Detector Circuits based on MoS Field Effect Transistors on Wafer-Scale Flexible Substrates.. <i>Advanced Materials</i> , 2022 , e2108469	24	1
122	Statistical distortion of supervised learning predictions in optical microscopy induced by image compression.. <i>Scientific Reports</i> , 2022 , 12, 3464	4.9	
121	Three-step, transfer-free growth of MoS ₂ /WS ₂ /graphene vertical van der Waals heterostructure. <i>2D Materials</i> , 2022 , 9, 025030	5.9	0
120	Rhesus Blood Typing within a Few Seconds by Packing-Enhanced Nanoscattering on Individual Erythrocytes. <i>Analytical Chemistry</i> , 2021 , 93, 15142-15149	7.8	1
119	Time-Resolved Scanning Ion Conductance Microscopy for Three-Dimensional Tracking of Nanoscale Cell Surface Dynamics. <i>ACS Nano</i> , 2021 ,	16.7	10
118	Super-resolved Optical Mapping of Reactive Sulfur-Vacancies in Two-Dimensional Transition Metal Dichalcogenides. <i>ACS Nano</i> , 2021 , 15, 7168-7178	16.7	2
117	High resolution optical projection tomography platform for multispectral imaging of the mouse gut. <i>Biomedical Optics Express</i> , 2021 , 12, 3619-3629	3.5	1
116	Parameter-free rendering of single-molecule localization microscopy data for parameter-free resolution estimation. <i>Communications Biology</i> , 2021 , 4, 550	6.7	1
115	From Water Solutions to Ionic Liquids with Solid State Nanopores as a Perspective to Study Transport and Translocation Phenomena. <i>Small</i> , 2021 , 17, e2100777	11	4
114	Adaptive optics enables multimode 3D super-resolution microscopy via remote focusing. <i>Nanophotonics</i> , 2021 , 10, 2451-2458	6.3	0
113	Direct Growth of Hexagonal Boron Nitride on Photonic Chips for High-Throughput Characterization. <i>ACS Photonics</i> , 2021 , 8, 2033-2040	6.3	5
112	Correlative 3D microscopy of single cells using super-resolution and scanning ion-conductance microscopy. <i>Nature Communications</i> , 2021 , 12, 4565	17.4	10
111	Experimental Combination of Super-Resolution Optical Fluctuation Imaging with Structured Illumination Microscopy for Large Fields-of-View. <i>ACS Photonics</i> , 2021 , 8, 2440-2449	6.3	3
110	Electrochemical Functionalization of Selectively Addressed MoS ₂ Nanoribbons for Sensor Device Fabrication. <i>ACS Applied Nano Materials</i> , 2021 , 4, 1076-1084	5.6	7
109	Bio-orthogonal Red and Far-Red Fluorogenic Probes for Wash-Free Live-Cell and Super-resolution Microscopy. <i>ACS Central Science</i> , 2021 , 7, 1561-1571	16.8	11
108	Anomalous interfacial dynamics of single proton charges in binary aqueous solutions. <i>Science Advances</i> , 2021 , 7, eabg8568	14.3	2
107	Wetting of nanopores probed with pressure. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 4975-4987	3.6	3

106	Aerolysin nanopores decode digital information stored in tailored macromolecular analytes. <i>Science Advances</i> , 2020 , 6,	14.3	16
105	Logic-in-memory based on an atomically thin semiconductor. <i>Nature</i> , 2020 , 587, 72-77	50.4	94
104	Microscopic Detection Analysis of Single Molecules in MoS Membrane Nanopores. <i>ACS Nano</i> , 2020 , 14, 16131-16139	16.7	9
103	Wafer-Scale Fabrication of Nanopore Devices for Single-Molecule DNA Biosensing using MoS2. <i>Small Methods</i> , 2020 , 4, 2000072	12.8	21
102	Spectral cross-cumulants for multicolor super-resolved SOFI imaging. <i>Nature Communications</i> , 2020 , 11, 3023	17.4	15
101	Self-Blinking Dyes Unlock High-Order and Multiplane Super-Resolution Optical Fluctuation Imaging. <i>ACS Nano</i> , 2020 , 14, 9156-9165	16.7	22
100	Nanocapillary confinement of imidazolium based ionic liquids. <i>Nanoscale</i> , 2020 , 12, 8867-8874	7.7	7
99	High-Throughput Nanocapillary Filling Enabled by Microwave Radiation for Scanning Ion Conductance Microscopy Imaging. <i>ACS Applied Nano Materials</i> , 2020 , 3, 7829-7834	5.6	9
98	Direct observation of water-mediated single-proton transport between hBN surface defects. <i>Nature Nanotechnology</i> , 2020 , 15, 598-604	28.7	17
97	Nanoscale Selective Passivation of Electrodes Contacting a 2D Semiconductor. <i>Advanced Functional Materials</i> , 2020 , 30, 1907860	15.6	3
96	Pressure-Induced Enlargement and Ionic Current Rectification in Symmetric Nanopores. <i>Nano Letters</i> , 2020 , 20, 8089-8095	11.5	4
95	Polymer Coatings to Minimize Protein Adsorption in Solid-State Nanopores. <i>Small Methods</i> , 2020 , 4, 2000137	11.7	11
94	Addendum: Parameter-free image resolution estimation based on decorrelation analysis. <i>Nature Methods</i> , 2020 , 17, 1061-1063	21.6	2
93	Towards artificial mechanosensing. <i>Nature Materials</i> , 2020 , 19, 1043-1044	27	6
92	Recent Advances and Prospects in the Research of Nascent Adhesions. <i>Frontiers in Physiology</i> , 2020 , 11, 574371	4.6	5
91	Identifying microbial species by single-molecule DNA optical mapping and resampling statistics. <i>NAR Genomics and Bioinformatics</i> , 2020 , 2, lqz007	3.7	8
90	Wafer-scale MOCVD growth of monolayer MoS2 on sapphire and SiO2. <i>Nano Research</i> , 2019 , 12, 2646-2652	6.5	52
89	Parameter-free image resolution estimation based on decorrelation analysis. <i>Nature Methods</i> , 2019 , 16, 918-924	21.6	81

88	Spatiotemporal Imaging of Water in Operating Voltage-Gated Ion Channels Reveals the Slow Motion of Interfacial Ions. <i>Nano Letters</i> , 2019 , 19, 7608-7613	11.5	7
87	Waveguide-PAINT offers an open platform for large field-of-view super-resolution imaging. <i>Nature Communications</i> , 2019 , 10, 1267	17.4	30
86	Fabrication and practical applications of molybdenum disulfide nanopores. <i>Nature Protocols</i> , 2019 , 14, 1130-1168	18.8	49
85	Wide-Field Spectral Super-Resolution Mapping of Optically Active Defects in Hexagonal Boron Nitride. <i>Nano Letters</i> , 2019 , 19, 2516-2523	11.5	37
84	Fluorescent Nanodiamonds as Versatile Intracellular Temperature Sensors. <i>Chimia</i> , 2019 , 73, 73-77	1.3	6
83	2D materials as an emerging platform for nanopore-based power generation. <i>Nature Reviews Materials</i> , 2019 , 4, 588-605	73.3	120
82	2D MoS ₂ nanopores: ionic current blockade height for clustering DNA events. <i>2D Materials</i> , 2019 , 6, 045011	5.9	6
81	Facile Production of Hexagonal Boron Nitride Nanoparticles by Cryogenic Exfoliation. <i>Nano Letters</i> , 2019 , 19, 5417-5422	11.5	12
80	Light-Enhanced Blue Energy Generation Using MoS ₂ Nanopores. <i>Joule</i> , 2019 , 3, 1549-1564	27.8	68
79	Transverse Detection of DNA Using a MoS Nanopore. <i>Nano Letters</i> , 2019 , 19, 9075-9083	11.5	46
78	Waveguide-Based Platform for Large-FOV Imaging of Optically Active Defects in 2D Materials. <i>ACS Photonics</i> , 2019 , 6, 3100-3107	6.3	5
77	Supervised learning to quantify amyloidosis in whole brains of an Alzheimer's disease mouse model acquired with optical projection tomography. <i>Biomedical Optics Express</i> , 2019 , 10, 3041-3060	3.5	8
76	High-speed multiplane structured illumination microscopy of living cells using an image-splitting prism. <i>Nanophotonics</i> , 2019 , 9, 143-148	6.3	8
75	Single-molecule sensing of peptides and nucleic acids by engineered aerolysin nanopores. <i>Nature Communications</i> , 2019 , 10, 4918	17.4	30
74	Detecting topological variations of DNA at single-molecule level. <i>Nature Communications</i> , 2019 , 10, 3	17.4	31
73	Orthogonal Tip-to-Tip Nanocapillary Alignment Allows for Easy Detection of Fluorescent Emitters in Femtomolar Concentrations. <i>Nano Letters</i> , 2018 , 18, 3165-3171	11.5	1
72	Imaging of Optically Active Defects with Nanometer Resolution. <i>Nano Letters</i> , 2018 , 18, 1739-1744	11.5	44
71	Transverse Detection of DNA in a MoS ₂ Nanopore. <i>Biophysical Journal</i> , 2018 , 114, 180a	2.9	11

70	Centimeter-Sized Single-Orientation Monolayer Hexagonal Boron Nitride With or Without Nanovoids. <i>Nano Letters</i> , 2018 , 18, 1205-1212	11.5	34
69	Single step synthesis of Schottky-like hybrid graphene - titania interfaces for efficient photocatalysis. <i>Scientific Reports</i> , 2018 , 8, 8154	4.9	11
68	Combining PALM and SOFI for quantitative imaging of focal adhesions in living cells 2017 ,		3
67	Geometrical Effect in 2D Nanopores. <i>Nano Letters</i> , 2017 , 17, 4223-4230	11.5	58
66	Investigating Focal Adhesion Substructures by Localization Microscopy. <i>Biophysical Journal</i> , 2017 , 113, 2508-2518	2.9	11
65	Single-layer MoS2 nanopores as nanopower generators. <i>Nature</i> , 2016 , 536, 197-200	50.4	560
64	Single Molecule Localization and Discrimination of DNA-Protein Complexes by Controlled Translocation Through Nanocapillaries. <i>Nano Letters</i> , 2016 , 16, 7882-7890	11.5	29
63	On characterizing protein spatial clusters with correlation approaches. <i>Scientific Reports</i> , 2016 , 6, 31164	4.9	7
62	Observation of ionic Coulomb blockade in nanopores. <i>Nature Materials</i> , 2016 , 15, 850-5	27	120
61	Complementarity of PALM and SOFI for super-resolution live-cell imaging of focal adhesions. <i>Nature Communications</i> , 2016 , 7, 13693	17.4	54
60	Revealing G-protein-coupled receptor oligomerization at the single-molecule level through a nanoscopic lens: methods, dynamics and biological function. <i>FEBS Journal</i> , 2016 , 283, 1197-217	5.7	56
59	High-Resolution Correlative Microscopy: Bridging the Gap between Single Molecule Localization Microscopy and Atomic Force Microscopy. <i>Nano Letters</i> , 2015 , 15, 4896-904	11.5	66
58	Electrochemical Reaction in Single Layer MoS2: Nanopores Opened Atom by Atom. <i>Nano Letters</i> , 2015 , 15, 3431-8	11.5	162
57	Large-Area Epitaxial Monolayer MoS2. <i>ACS Nano</i> , 2015 , 9, 4611-20	16.7	583
56	Identification of single nucleotides in MoS2 nanopores. <i>Nature Nanotechnology</i> , 2015 , 10, 1070-6	28.7	319
55	Relevance of the Drag Force during Controlled Translocation of a DNA-Protein Complex through a Glass Nanocapillary. <i>Nano Letters</i> , 2015 , 15, 7118-25	11.5	16
54	Single florescent nanodiamond in a three dimensional ABEL trap. <i>Scientific Reports</i> , 2015 , 5, 16669	4.9	9
53	Correlated Atomic Force Microscopy and Single Molecule Localization Microscopy. <i>Microscopy and Microanalysis</i> , 2015 , 21, 1625-1626	0.5	

52	Accounting for limited detection efficiency and localization precision in cluster analysis in single molecule localization microscopy. <i>PLoS ONE</i> , 2015 , 10, e0118767	3.7	10
51	Large-area MoS ₂ grown using H ₂ S as the sulphur source. <i>2D Materials</i> , 2015 , 2, 044005	5.9	60
50	The emergence of nanopores in next-generation sequencing. <i>Nanotechnology</i> , 2015 , 26, 074003	3.4	60
49	Light generation and harvesting in a van der Waals heterostructure. <i>ACS Nano</i> , 2014 , 8, 3042-8	16.7	337
48	Nanopore integrated nanogaps for DNA detection. <i>Nano Letters</i> , 2014 , 14, 244-9	11.5	53
47	Measurement of the position-dependent electrophoretic force on DNA in a glass nanocapillary. <i>Nano Letters</i> , 2014 , 14, 6606-13	11.5	20
46	Probing the size of proteins with glass nanopores. <i>Nanoscale</i> , 2014 , 6, 14380-7	7.7	57
45	Probing rotational and translational diffusion of nanodoublers in living cells on microsecond time scales. <i>Nano Letters</i> , 2014 , 14, 2552-7	11.5	23
44	Progress in quantitative single-molecule localization microscopy. <i>Histochemistry and Cell Biology</i> , 2014 , 142, 5-17	2.4	60
43	Electron spin resonance of nitrogen-vacancy defects embedded in single nanodiamonds in an ABEL trap. <i>Nano Letters</i> , 2014 , 14, 5335-41	11.5	22
42	Atomically thin molybdenum disulfide nanopores with high sensitivity for DNA translocation. <i>ACS Nano</i> , 2014 , 8, 2504-11	16.7	333
41	Challenges in quantitative single molecule localization microscopy. <i>FEBS Letters</i> , 2014 , 588, 3595-602	3.8	51
40	ComEA is essential for the transfer of external DNA into the periplasm in naturally transformable <i>Vibrio cholerae</i> cells. <i>PLoS Genetics</i> , 2014 , 10, e1004066	6	76
39	High throughput second harmonic imaging for label-free biological applications. <i>Optics Express</i> , 2014 , 22, 31102-12	3.3	25
38	Detecting the translocation of DNA through a nanopore using graphene nanoribbons. <i>Nature Nanotechnology</i> , 2013 , 8, 939-45	28.7	285
37	Enhancement of second harmonic signal in nanofabricated cones. <i>Nano Letters</i> , 2013 , 13, 6048-54	11.5	31
36	MosaicIA: an ImageJ/Fiji plugin for spatial pattern and interaction analysis. <i>BMC Bioinformatics</i> , 2013 , 14, 349	3.6	57
35	Enlightening G-protein-coupled receptors on the plasma membrane using super-resolution photoactivated localization microscopy. <i>Biochemical Society Transactions</i> , 2013 , 41, 191-6	5.1	21

34	Controllable shrinking and shaping of glass nanocapillaries under electron irradiation. <i>Nano Letters</i> , 2013 , 13, 1717-23	11.5	46
33	Ultrasensitive photodetectors based on monolayer MoS ₂ . <i>Nature Nanotechnology</i> , 2013 , 8, 497-501	28.7	3412
32	DNA translocation through low-noise glass nanopores. <i>ACS Nano</i> , 2013 , 7, 11255-62	16.7	76
31	Detection of RNAP-DNA complexes using solid state nanopores. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2013 , 2013, 4106-9	0.9	3
30	Cell type-specific β -adrenergic receptor clusters identified using photoactivated localization microscopy are not lipid raft related, but depend on actin cytoskeleton integrity. <i>Journal of Biological Chemistry</i> , 2012 , 287, 16768-80	5.4	68
29	Nanopore detection of single molecule RNAP-DNA transcription complex. <i>Nano Letters</i> , 2012 , 12, 1157-64	64.5	70
28	Identification of the factors affecting co-localization precision for quantitative multicolor localization microscopy. <i>Optical Nanoscopy</i> , 2012 , 1, 9		30
27	Fast and automatic processing of multi-level events in nanopore translocation experiments. <i>Nanoscale</i> , 2012 , 4, 4916-24	7.7	108
26	Alkaline niobate nanowires as opto-mechanical probes 2012 ,		1
25	Micro-fabrication process for small transport devices of layered manganite. <i>Journal of Applied Physics</i> , 2012 , 111, 07E129	2.5	1
24	Identification of clustering artifacts in photoactivated localization microscopy. <i>Nature Methods</i> , 2011 , 8, 527-8	21.6	162
23	Niobates Nanowires: Synthesis, Characterization and Applications 2011 ,		1
22	Quantitative photo activated localization microscopy: unraveling the effects of photoblinking. <i>PLoS ONE</i> , 2011 , 6, e22678	3.7	202
21	Single-layer MoS ₂ transistors. <i>Nature Nanotechnology</i> , 2011 , 6, 147-50	28.7	10521
20	Nonlinear optical response in single alkaline niobate nanowires. <i>Nano Letters</i> , 2011 , 11, 2517-21	11.5	123
19	ssDNA binding reveals the atomic structure of graphene. <i>Langmuir</i> , 2010 , 26, 18078-82	4	75
18	Photoactivatable Fluorescent Protein mEos2 Displays Repeated Photoactivation after a Long-Lived Dark State in the Red Photoconverted Form. <i>Journal of Physical Chemistry Letters</i> , 2010 , 1, 1506-1510	6.4	77
17	Beta amyloid and hyperphosphorylated tau deposits in the pancreas in type 2 diabetes. <i>Neurobiology of Aging</i> , 2010 , 31, 1503-15	5.6	138

16	Fabrication of 10 nm diameter hydrocarbon nanopores. <i>Applied Physics Letters</i> , 2008 , 93, 183101	3.4	23
15	Controlling DNA capture and propagation through artificial nanopores. <i>Nano Letters</i> , 2007 , 7, 2824-30	11.5	108
14	Tunable nanowire nonlinear optical probe. <i>Nature</i> , 2007 , 447, 1098-101	50.4	448
13	Study of DNA in Glasslike State by Atomic Force Microscopy: Importance of Substrates. <i>Japanese Journal of Applied Physics</i> , 2006 , 45, 2345-2348	1.4	4
12	ZnO-Al ₂ O ₃ and ZnO-TiO ₂ core-shell nanowire dye-sensitized solar cells. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 22652-63	3.4	644
11	Beta-amyloid deposition and Alzheimer's type changes induced by Borrelia spirochetes. <i>Neurobiology of Aging</i> , 2006 , 27, 228-36	5.6	134
10	Optical trapping and integration of semiconductor nanowire assemblies in water. <i>Nature Materials</i> , 2006 , 5, 97-101	27	323
9	Characterization of atomic force microscope probes at low temperatures. <i>Journal of Applied Physics</i> , 2003 , 94, 4210-4214	2.5	5
8	Low noise current-to-voltage converter and vibration damping system for a low-temperature ultrahigh vacuum scanning tunneling microscope. <i>Review of Scientific Instruments</i> , 2003 , 74, 1016-1021	1.7	18
7	A low-temperature ultrahigh vacuum atomic force microscope for biological applications. <i>Review of Scientific Instruments</i> , 2003 , 74, 1022-1026	1.7	14
6	Study of Probes and Substrates for Low Temperature Atomic Force Microscopy and Biological Applications. <i>Acta Physica Polonica A</i> , 2003 , 104, 373-380	0.6	
5	High speed multi-plane super-resolution structured illumination microscopy of living cells using an image-splitting prism		1
4	Bioorthogonal red and far-red fluorogenic probes for wash-free live-cell and super-resolution microscopy		5
3	Correlative 3D microscopy of single cells using super-resolution and scanning ion-conductance microscopy		1
2	Time-resolved scanning ion conductance microscopy for three-dimensional tracking of nanoscale cell surface dynamics		1
1	Stable Al ₂ O ₃ Encapsulation of MoS ₂ -FETs Enabled by CVD Grown h-BN. <i>Advanced Electronic Materials</i> , 2200123	6.4	1