Igor Aharonovich, Fosa, Frsn

List of Publications by Citations

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233 papers

8,947 citations

47 h-index 86 g-index

290 ext. papers

11,512 ext. citations

9.7 avg, IF

6.71 L-index

#	Paper	IF	Citations
233	Solid-state single-photon emitters. <i>Nature Photonics</i> , 2016 , 10, 631-641	33.9	804
232	Quantum emission from hexagonal boron nitride monolayers. <i>Nature Nanotechnology</i> , 2016 , 11, 37-41	28.7	675
231	Diamond photonics. <i>Nature Photonics</i> , 2011 , 5, 397-405	33.9	432
230	Diamond-based single-photon emitters. Reports on Progress in Physics, 2011, 74, 076501	14.4	363
229	Robust Multicolor Single Photon Emission from Point Defects in Hexagonal Boron Nitride. <i>ACS Nano</i> , 2016 , 10, 7331-8	16.7	285
228	Photonics with hexagonal boron nitride. <i>Nature Reviews Materials</i> , 2019 , 4, 552-567	73.3	253
227	Tunable and high-purity room temperature single-photon emission from atomic defects in hexagonal boron nitride. <i>Nature Communications</i> , 2017 , 8, 705	17.4	226
226	Diamond Nanophotonics. Advanced Optical Materials, 2014, 2, 911-928	8.1	203
225	First-principles investigation of quantum emission from hBN defects. <i>Nanoscale</i> , 2017 , 9, 13575-13582	7.7	122
224	Quantum nanophotonics with group IV defects in diamond. <i>Nature Communications</i> , 2019 , 10, 5625	17.4	122
223	Deterministic Coupling of Quantum Emitters in 2D Materials to Plasmonic Nanocavity Arrays. <i>Nano Letters</i> , 2017 , 17, 2634-2639	11.5	119
222	Two-level ultrabright single photon emission from diamond nanocrystals. <i>Nano Letters</i> , 2009 , 9, 3191-5	11.5	117
221	Initialization and read-out of intrinsic spin defects in a van der Waals crystal at room temperature. Nature Materials, 2020, 19, 540-545	27	113
220	Ambient Protection of Few-Layer Black Phosphorus via Sequestration of Reactive Oxygen Species. <i>Advanced Materials</i> , 2017 , 29, 1700152	24	103
219	Optical metasurfaces: new generation building blocks for multi-functional optics. <i>Light: Science and Applications</i> , 2018 , 7, 58	16.7	99
218	Engineering and Localization of Quantum Emitters in Large Hexagonal Boron Nitride Layers. <i>ACS Applied Materials & Discourse (Materials & Discours)</i> 2016, 8, 29642-29648	9.5	96
217	Quantum Emission from Defects in Single-Crystalline Hexagonal Boron Nitride. <i>Physical Review Applied</i> , 2016 , 5,	4.3	95

216	Multi-photon near-infrared emission saturation nanoscopy using upconversion nanoparticles. <i>Nature Communications</i> , 2018 , 9, 3290	17.4	92
215	Photonic crystal cavities from hexagonal boron nitride. <i>Nature Communications</i> , 2018 , 9, 2623	17.4	89
214	Chromium single-photon emitters in diamond fabricated by ion implantation. <i>Physical Review B</i> , 2010 , 81,	3.3	83
213	Single Photon Sources in Atomically Thin Materials. <i>Annual Review of Physical Chemistry</i> , 2019 , 70, 123-	1 43 .7	82
212	Identifying carbon as the source of visible single-photon emission from hexagonal boron nitride. <i>Nature Materials</i> , 2021 , 20, 321-328	27	78
211	Room temperature quantum emission from cubic silicon carbide nanoparticles. ACS Nano, 2014, 8, 7938	3- 47 .7	77
210	Coupling of nitrogen-vacancy centers in diamond to a GaP waveguide. <i>Applied Physics Letters</i> , 2008 , 93, 234107	3.4	71
209	Robust Solid-State Quantum System Operating at 800 K. ACS Photonics, 2017, 4, 768-773	6.3	68
208	Revealing multiple classes of stable quantum emitters in hexagonal boron nitride with correlated optical and electron microscopy. <i>Nature Materials</i> , 2020 , 19, 534-539	27	68
207	Bright Room-Temperature Single-Photon Emission from Defects in Gallium Nitride. <i>Advanced Materials</i> , 2017 , 29, 1605092	24	66
206	Engineering and Tuning of Quantum Emitters in Few-Layer Hexagonal Boron Nitride. <i>ACS Nano</i> , 2019 , 13, 3132-3140	16.7	65
205	Single photon emission from plasma treated 2D hexagonal boron nitride. <i>Nanoscale</i> , 2018 , 10, 7957-796	6 5 .7	64
204	Enhanced single-photon emission in the near infrared from a diamond color center. <i>Physical Review B</i> , 2009 , 79,	3.3	64
203	Room temperature solid-state quantum emitters in the telecom range. Science Advances, 2018, 4, eaar3	3 58 103	63
202	Engineering of nitrogen-vacancy color centers in high purity diamond by ion implantation and annealing. <i>Journal of Applied Physics</i> , 2011 , 109, 083530	2.5	63
201	Coupling Quantum Emitters in 2D Materials with Tapered Fibers. ACS Photonics, 2017, 4, 761-767	6.3	62
200	Nanodiamonds with silicon vacancy defects for nontoxic photostable fluorescent labeling of neural precursor cells. <i>Optics Letters</i> , 2013 , 38, 4170-3	3	62
199	Deterministic coupling of delta-doped nitrogen vacancy centers to a nanobeam photonic crystal cavity. <i>Applied Physics Letters</i> , 2014 , 105, 261101	3.4	60

198	Diamond in tellurite glass: a new medium for quantum information. Advanced Materials, 2011, 23, 2806-	-1 <u>20</u> 4	59
197	Homoepitaxial growth of single crystal diamond membranes for quantum information processing. <i>Advanced Materials</i> , 2012 , 24, OP54-9	24	58
196	Controlled synthesis of high quality micro/nano-diamonds by microwave plasma chemical vapor deposition. <i>Diamond and Related Materials</i> , 2009 , 18, 51-55	3.5	58
195	Coupling of silicon-vacancy centers to a single crystal diamond cavity. <i>Optics Express</i> , 2012 , 20, 8891-7	3.3	56
194	Photophysics of chromium-related diamond single-photon emitters. <i>Physical Review A</i> , 2010 , 81,	2.6	55
193	Fabrication of single optical centres in diamond review. <i>Journal of Luminescence</i> , 2010 , 130, 1646-1654	ł 3.8	54
192	Bright and photostable single-photon emitter in silicon carbide. <i>Optica</i> , 2016 , 3, 768	8.6	53
191	Two-photon excitation triggers combined chemo-photothermal therapy via doped carbon nanohybrid dots for effective breast cancer treatment. <i>Chemical Engineering Journal</i> , 2017 , 330, 651-66	2 ^{14.7}	50
190	Synthesis of luminescent europium defects in diamond. <i>Nature Communications</i> , 2014 , 5, 3523	17.4	50
189	Fabrication of thin, luminescent, single-crystal diamond membranes. <i>Applied Physics Letters</i> , 2011 , 99, 081913	3.4	49
188	Low threshold, room-temperature microdisk lasers in the blue spectral range. <i>Applied Physics Letters</i> , 2013 , 103, 021112	3.4	48
187	Photodynamics of quantum emitters in hexagonal boron nitride revealed by low-temperature spectroscopy. <i>Physical Review B</i> , 2017 , 96,	3.3	47
186	Observation of Fourier transform limited lines in hexagonal boron nitride. <i>Physical Review B</i> , 2018 , 98,	3.3	43
185	Photophysics of Point Defects in ZnO Nanoparticles. <i>Advanced Optical Materials</i> , 2015 , 3, 821-827	8.1	42
184	Plasma-Enabled Growth of Single-Crystalline SiC/AlSiC CoreBhell Nanowires on Porous Alumina Templates. <i>Crystal Growth and Design</i> , 2012 , 12, 2917-2922	3.5	42
183	Low-temperature optical characterization of a near-infrared single-photon emitter in nanodiamonds. <i>New Journal of Physics</i> , 2009 , 11, 113029	2.9	42
182	Resonant Excitation of Quantum Emitters in Hexagonal Boron Nitride. ACS Photonics, 2018, 5, 295-300	6.3	42
181	High quality SiC microdisk resonators fabricated from monolithic epilayer wafers. <i>Applied Physics Letters</i> , 2014 , 104, 051109	3.4	41

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180	Coherent control of a strongly driven silicon vacancy optical transition in diamond. <i>Nature Communications</i> , 2017 , 8, 14451	17.4	40
179	All-optical control and super-resolution imaging of quantum emitters in layered materials. <i>Nature Communications</i> , 2018 , 9, 874	17.4	39
178	Effects of High-Energy Electron Irradiation on Quantum Emitters in Hexagonal Boron Nitride. <i>ACS Applied Materials & Discrete Applied & Discrete Appli</i>	9.5	38
177	Bottom-up engineering of diamond micro- and nano-structures. <i>Laser and Photonics Reviews</i> , 2013 , 7, L61-L65	8.3	38
176	Nanoassembly of quantum emitters in hexagonal boron nitride and gold nanospheres. <i>Nanoscale</i> , 2018 , 10, 2267-2274	7.7	38
175	Strain-Induced Modification of the Optical Characteristics of Quantum Emitters in Hexagonal Boron Nitride. <i>Advanced Materials</i> , 2020 , 32, e1908316	24	35
174	Electroluminescence from localized defects in zinc oxide: toward electrically driven single photon sources at room temperature. <i>ACS Applied Materials & District Research (No. 1988)</i> 1, 5619-23	9.5	34
173	Optical Nanoscale Thermometry: From Fundamental Mechanisms to Emerging Practical Applications. <i>Advanced Optical Materials</i> , 2020 , 8, 2000183	8.1	34
172	Silicon-vacancy color centers in nanodiamonds: cathodoluminescence imaging markers in the near infrared. <i>Small</i> , 2014 , 10, 1908-13	11	34
171	Single photon emission from ZnO nanoparticles. <i>Applied Physics Letters</i> , 2014 , 104, 261101	3.4	34
170	Wide-range electrical tunability of single-photon emission from chromium-based colour centres in diamond. <i>New Journal of Physics</i> , 2011 , 13, 075001	2.9	34
169	Nonblinking Emitters with Nearly Lifetime-Limited Linewidths in CVD Nanodiamonds. <i>Physical Review Applied</i> , 2016 , 6,	4.3	33
168	Formation of color centers in nanodiamonds by plasma assisted diffusion of impurities from the growth substrate. <i>Applied Physics Letters</i> , 2008 , 93, 243112	3.4	33
167	Uranium(VI) complexes with isonicotinic acid: from monomer to 2D polymer with unique UN bonding. <i>RSC Advances</i> , 2015 , 5, 33249-33253	3.7	32
166	Distinctive signature of indium gallium nitride quantum dot lasing in microdisk cavities. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 14042-6	11.5	32
165	Quantum emitters in two dimensions. <i>Science</i> , 2017 , 358, 170-171	33.3	31
164	Electron beam directed etching of hexagonal boron nitride. <i>Nanoscale</i> , 2016 , 8, 16182-6	7.7	31
163	Anti-Stokes excitation of solid-state quantum emitters for nanoscale thermometry. <i>Science Advances</i> , 2019 , 5, eaav9180	14.3	30

162	Very Large and Reversible Stark-Shift Tuning of Single Emitters in Layered Hexagonal Boron Nitride. <i>Physical Review Applied</i> , 2019 , 11,	4.3	30
161	Effects of plasma-treatment on the electrical and optoelectronic properties of layered black phosphorus. <i>Applied Materials Today</i> , 2018 , 12, 244-249	6.6	30
160	Localized chemical switching of the charge state of nitrogen-vacancy luminescence centers in diamond. <i>Applied Physics Letters</i> , 2014 , 105, 063103	3.4	29
159	Nickel related optical centres in diamond created by ion implantation. <i>Journal of Applied Physics</i> , 2010 , 107, 093512	2.5	29
158	Subtractive 3D printing of optically active diamond structures. Scientific Reports, 2014, 4, 5022	4.9	28
157	Generation of Spin Defects in Hexagonal Boron Nitride. ACS Photonics, 2020, 7, 2147-2152	6.3	28
156	Producing optimized ensembles of nitrogen-vacancy color centers for quantum information applications. <i>Journal of Applied Physics</i> , 2009 , 106, 124904	2.5	28
155	Growth mechanisms of amorphous SiOx nanowires. <i>Applied Physics Letters</i> , 2007 , 90, 263109	3.4	28
154	Direct measurement of quantum efficiency of single-photon emitters in hexagonal boron nitride. <i>Optica</i> , 2019 , 6, 1084	8.6	28
153	Non-linear excitation of quantum emitters in hexagonal boron nitride multiplayers. <i>APL Photonics</i> , 2016 , 1, 091302	5.2	28
152	Single Crystal Diamond Membranes and Photonic Resonators Containing Germanium Vacancy Color Centers. <i>ACS Photonics</i> , 2018 , 5, 4817-4822	6.3	28
151	Electron paramagnetic resonance signature of point defects in neutron-irradiated hexagonal boron nitride. <i>Physical Review B</i> , 2018 , 98,	3.3	28
150	Integrated on Chip Platform with Quantum Emitters in Layered Materials. <i>Advanced Optical Materials</i> , 2019 , 7, 1901132	8.1	27
149	Electrical excitation of silicon-vacancy centers in single crystal diamond. <i>Applied Physics Letters</i> , 2015 , 106, 171102	3.4	27
148	Coupling Hexagonal Boron Nitride Quantum Emitters to Photonic Crystal Cavities. <i>ACS Nano</i> , 2020 , 14, 7085-7091	16.7	27
147	Fabrication of thin diamond membranes for photonic applications. <i>Diamond and Related Materials</i> , 2013 , 33, 45-48	3.5	27
146	On-chip manipulation of single photons from a diamond defect. <i>Physical Review Letters</i> , 2013 , 111, 213	6 93 4	26
145	Photoluminescent SiC tetrapods. <i>Nano Letters</i> , 2013 , 13, 1210-5	11.5	26

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Letters, 2010 , 105, 217403	7.4	26	
Engineering chromium-related single photon emitters in single crystal diamonds. <i>New Journal of Physics</i> , 2011 , 13, 045015	2.9	26	
Surface defect-abundant one-dimensional graphitic carbon nitride nanorods boost photocatalytic nitrogen fixation. <i>New Journal of Chemistry</i> , 2020 , 44, 20651-20658	3.6	26	
How to organize an online conference. <i>Nature Reviews Materials</i> , 2020 , 1-4	73.3	25	
Room temperature coherent control of spin defects in hexagonal boron nitride. <i>Science Advances</i> , 2021 , 7,	14.3	25	
Room-Temperature Single-Photon Emission from Oxidized Tungsten Disulfide Multilayers. <i>Advanced Optical Materials</i> , 2017 , 5, 1600939	8.1	24	
Diamond photonics platform based on silicon vacancy centers in a single-crystal diamond membrane and a fiber cavity. <i>Physical Review B</i> , 2019 , 99,	3.3	24	
Solid-state single photon source with Fourier transform limited lines at room temperature. <i>Physical Review B</i> , 2020 , 101,	3.3	24	
Selective Defect Formation in Hexagonal Boron Nitride. <i>Advanced Optical Materials</i> , 2019 , 7, 1900397	8.1	23	
Photoluminescence from voids created by femtosecond-laser pulses inside cubic-BN. <i>Optics Letters</i> , 2015 , 40, 5711-3	3	23	
Enhanced photoluminescence from single nitrogen-vacancy defects in nanodiamonds coated with phenol-ionic complexes. <i>Nanoscale</i> , 2015 , 7, 4869-74	7.7	23	
Photophysics of GaN single-photon emitters in the visible spectral range. <i>Physical Review B</i> , 2018 , 97,	3.3	22	
Single crystal diamond membranes for nanoelectronics. <i>Nanoscale</i> , 2018 , 10, 4028-4035	7.7	22	
Purification of single-photon emission from hBN using post-processing treatments. <i>Nanophotonics</i> , 2019 , 8, 2049-2055	6.3	22	
Roadmap on integrated quantum photonics. JPhys Photonics,	2.5	22	
Plastic Deformation of Single-Crystal Diamond Nanopillars. <i>Advanced Materials</i> , 2020 , 32, e1906458	24	21	
Solvothermal synthesis of uranium(VI) phases with aromatic carboxylate ligands: A dinuclear complex with 4-hydroxybenzoic acid and a 3D framework with terephthalic acid. <i>Journal of Solid State Chemistry</i> , 2016 , 234, 22-28	3.3	21	
Internal Nanostructure Diagnosis with Hyperbolic Phonon Polaritons in Hexagonal Boron Nitride. Nano Letters, 2018 , 18, 5205-5210	11.5	21	
	Engineering chromium-related single photon emitters in single crystal diamonds. New Journal of Physics, 2011, 13, 045015 Surface defect-abundant one-dimensional graphitic carbon nitride nanorods boost photocatalytic nitrogen fixation. New Journal of Chemistry, 2020, 44, 20651-20658 How to organize an online conference. Nature Reviews Materials, 2020, 1-4 Room temperature coherent control of spin defects in hexagonal boron nitride. Science Advances, 2021, 7, Room-Temperature Single-Photon Emission from Oxidized Tungsten Disulfide Multilayers. Advanced Optical Materials, 2017, 5, 1600939 Diamond photonics platform based on silicon vacancy centers in a single-crystal diamond membrane and a fiber cavity. Physical Review B, 2019, 99, Solid-state single photon source with Fourier transform limited lines at room temperature. Physical Review B, 2020, 101, Selective Defect Formation in Hexagonal Boron Nitride. Advanced Optical Materials, 2019, 7, 1900397 Photoluminescence from voids created by femtosecond-laser pulses inside cubic-BN. Optics Letters, 2015, 40, 5711-3 Enhanced photoluminescence from single nitrogen-vacancy defects in nanodiamonds coated with phenol-ionic complexes. Nanoscale, 2015, 7, 4869-74 Photophysics of GaN single-photon emitters in the visible spectral range. Physical Review B, 2018, 97, Single crystal diamond membranes for nanoelectronics. Nanoscale, 2018, 10, 4028-4035 Purification of single-photon emission from hBN using post-processing treatments. Nanophotonics, 2019, 8, 2049-2055 Roadmap on integrated quantum photonics. JPhys Photonics, Plastic Deformation of Single-Crystal Diamond Nanopillars. Advanced Materials, 2020, 32, e1906458 Solvothermal synthesis of uranium(VI) phases with aromatic carboxylate ligands: A dinuclear complex with 4-hydroxybenzoic acid and a 3D framework with terephthalic acid. Journal of Solid State Chemistry, 2016, 234, 22-28 Internal Nanostructure Diagnosis with Hyperbolic Phonon Polaritons in Hexagonal Boron Nitride.	Engineering chromium-related single photon emitters in single crystal diamonds. New Journal of Physics, 2011, 13, 045015 Surface defect-abundant one-dimensional graphitic carbon nitride nanorods boost photocatalytic nitrogen fixation. New Journal of Chemistry, 2020, 44, 20651-20658 How to organize an online conference. Nature Reviews Materials, 2020, 1-4 73-3 Room temperature coherent control of spin defects in hexagonal boron nitride. Science Advances, 2021, 7, Room-Temperature Single-Photon Emission from Oxidized Tungsten Disulfide Multilayers. Advanced Optical Materials, 2017, 5, 1600939 Diamond photonics platform based on silicon vacancy centers in a single-crystal diamond membrane and a fiber cavity. Physical Review B, 2019, 99, Solid-state single photon source with Fourier transform limited lines at room temperature. Physical Review B, 2020, 101, Selective Defect Formation in Hexagonal Boron Nitride. Advanced Optical Materials, 2019, 7, 1900397 8.1 Enhanced photoluminescence from voids created by femtosecond-laser pulses inside cubic-BN. Optics Letters, 2015, 40, 5711-3 Enhanced photoluminescence from single nitrogen-vacancy defects in nanodiamonds coated with phenol-ionic complexes. Nanoscale, 2015, 7, 4869-74 Photophysics of GaN single-photon emitters in the visible spectral range. Physical Review B, 2018, 97, Single crystal diamond membranes for nanoelectronics. Nanoscale, 2018, 10, 4028-4035 7.7 Purification of single-photon emission from hBN using post-processing treatments. Nanophotonics, 2019, 8, 2049-2055 Roadmap on integrated quantum photonics. JPhys Photonics, 25 Plastic Deformation of Single-Crystal Diamond Nanopillars. Advanced Materials, 2020, 32, e1906458 2.4 Solvothermal synthesis of uranium(VI) phases with aromatic carboxylate ligands: A dinuclear complex with 4-hydroxybenzoic acid and a 3D framework with terephthalic acid. Journal of Solid State Chemistry, 2016, 234, 22-28 Internal Nanostructure Diagnosis with Hyperbolic Phonon Polaritons in Hexagonal Boron Nitride.	Engineering chromium-related single photon emilters in single crystal diamonds. New Journal of Physics, 2011, 13, 045015 Surface defect-abundant one-dimensional graphitic carbon nitride nanorods boost photocatalytic nitrogen fixation. New Journal of Chemistry, 2020, 44, 20651-20658 How to organize an online conference. Nature Reviews Materials, 2020, 1-4 753 25 Room temperature coherent control of spin defects in hexagonal boron nitride. Science Advances, 2021, 7. Room-Temperature Single-Photon Emission from Oxidized Tungsten Disulfide Multilayers. 8.1 Advanced Optical Materials, 2017, 5, 1600939 Diamond photonics platform based on silicon vacancy centers in a single-crystal diamond membrane and a fiber cavity. Physical Review B, 2019, 99, Solid-state single photon source with Fourier transform limited lines at room temperature. Physical Review B, 2020, 101, Selective Defect Formation in Hexagonal Boron Nitride. Advanced Optical Materials, 2019, 7, 1900397 8.1 23 Photophysics of GaN single-photon emitters in the visible spectral range. Physical Review B, 2018, 99, 77 Single crystal diamond membranes for nanoelectronics. Nanoscale, 2018, 10, 4028-4035 7.7 22 Purification of single-photon emission from hBN using post-processing treatments. Nanophotonics, 2019, 8, 2049-2055 Roadmap on integrated quantum photonics. JPhys Photonics, 2019, 8, 2049-2055 Roadmap on integrated quantum photonics. JPhys Photonics, 2019, 8, 2049-2055 Roadmap on integrated quantum photonics. JPhys Photonics, 2019, 8, 2049-2055 Roadmap on integrated quantum photonics. JPhys Photonics, 2019, 8, 2049-2055 Roadmap on integrated quantum photonics. JPhys Photonics, 2019, 8, 2049-2055 Roadmap on integrated quantum photonics. JPhys Photonics, 2019, 8, 2049-2055 Roadmap on integrated quantum photonics, 2019, 10, 2016, 234, 22-28 Internal Nanostructure Diagnosis with Hyperbolic Phonon Polaritons in Hexagonal Boron Nitride.

126	Photoluminescence, photophysics, and photochemistry of the VBIdefect in hexagonal boron nitride. <i>Physical Review B</i> , 2020 , 102,	3.3	21
125	Coherent Manipulation with Resonant Excitation and Single Emitter Creation of Nitrogen Vacancy Centers in 4H Silicon Carbide. <i>Nano Letters</i> , 2020 , 20, 6142-6147	11.5	21
124	Maskless milling of diamond by a focused oxygen ion beam. Scientific Reports, 2015, 5, 8958	4.9	20
123	Plasmonic Metamaterial Sensor with Ultra-High Sensitivity in the Visible Spectral Range. <i>Advanced Optical Materials</i> , 2015 , 3, 750-755	8.1	20
122	Optical Gating of Resonance Fluorescence from a Single Germanium Vacancy Color Center in Diamond. <i>Physical Review Letters</i> , 2019 , 123, 033602	7.4	20
121	The potential and global outlook of integrated photonics for quantum technologies. <i>Nature Reviews Physics</i> , 2022 , 4, 194-208	23.6	20
120	Femtosecond Laser Writing of Spin Defects in Hexagonal Boron Nitride. ACS Photonics, 2021, 8, 994-100	0 6 .3	20
119	Second-harmonic generation in multilayer hexagonal boron nitride flakes. <i>Optics Letters</i> , 2019 , 44, 5792	2-≨795	19
118	Hexagonal Boron Nitride Cavity Optomechanics. <i>Nano Letters</i> , 2019 , 19, 1343-1350	11.5	18
117	Dynamic Pattern Formation in Electron-Beam-Induced Etching. <i>Physical Review Letters</i> , 2015 , 115, 2555	0 / 1.4	18
116	21^st-Century Applications of Nanodiamonds. <i>Optics and Photonics News</i> , 2010 , 21, 20	1.9	18
115	Quantum-confined single photon emission at room temperature from SiC tetrapods. <i>Nanoscale</i> , 2014 , 6, 10027-32	7.7	17
114	Observation of whispering gallery modes from hexagonal ZnO microdisks using cathodoluminescence spectroscopy. <i>Applied Physics Letters</i> , 2013 , 103, 171102	3.4	17
113	Robust, directed assembly of fluorescent nanodiamonds. <i>Nanoscale</i> , 2016 , 8, 18032-18037	7.7	17
112	Photonic Nanostructures from Hexagonal Boron Nitride. <i>Advanced Optical Materials</i> , 2019 , 7, 1801344	8.1	17
111	Direct writing of single germanium vacancy center arrays in diamond. <i>New Journal of Physics</i> , 2018 , 20, 125004	2.9	17
110	Enhanced Emission from WSe2 Monolayers Coupled to Circular Bragg Gratings. <i>ACS Photonics</i> , 2018 , 5, 3950-3955	6.3	17
109	Nanodiamonds with photostable, sub-gigahertz linewidth quantum emitters. <i>APL Photonics</i> , 2017 , 2, 116103	5.2	16

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108	An upper limit on the lateral vacancy diffusion length in diamond. <i>Diamond and Related Materials</i> , 2012 , 24, 6-10	3.5	16	
107	Uranium(VI) hybrid materials with [(UO2)3($\bar{\mu}$ 3-O)($\bar{\mu}$ 2-OH)3]+ as the sub B uilding unit via uranyl $\bar{\mu}$ ation interactions. <i>ChemistrySelect</i> , 2016 , 1, 7-12	1.8	16	
106	Versatile method for template-free synthesis of single crystalline metal and metal alloy nanowires. <i>Nanoscale</i> , 2016 , 8, 2804-10	7.7	15	
105	Zinc Oxide Nanophotonics. <i>Nanophotonics</i> , 2015 , 4, 437-458	6.3	15	
104	Atomically Thin Boron Nitride as an Ideal Spacer for Metal-Enhanced Fluorescence. <i>ACS Nano</i> , 2019 , 13, 12184-12191	16.7	14	
103	Hydrothermal synthesis, structures and properties of two uranyl oxide hydroxyl hydrate phases with Co(II) or Ni(II) ions. <i>New Journal of Chemistry</i> , 2016 , 40, 5357-5363	3.6	14	
102	Acoustically modulated optical emission of hexagonal boron nitride layers. <i>Applied Physics Letters</i> , 2019 , 114, 171104	3.4	13	
101	Low-Temperature Electron Phonon Interaction of Quantum Emitters in Hexagonal Boron Nitride. <i>ACS Photonics</i> , 2020 , 7, 1410-1417	6.3	13	
100	Fabrication strategies for diamond based ultra bright single photon sources. <i>Diamond and Related Materials</i> , 2010 , 19, 729-733	3.5	13	
99	Encapsulation-Free Stabilization of Few-Layer Black Phosphorus. <i>ACS Applied Materials & Amp; Interfaces</i> , 2018 , 10, 24327-24331	9.5	13	
98	Second harmonic generation in defective hexagonal boron nitride. <i>Journal of Physics Condensed Matter</i> , 2020 , 32, 19LT01	1.8	12	
97	Deterministic Nanopatterning of Diamond Using Electron Beams. ACS Nano, 2018, 12, 2873-2882	16.7	12	
96	Light-induced reflectivity transients in black-Si nanoneedles. <i>Solar Energy Materials and Solar Cells</i> , 2016 , 144, 221-227	6.4	12	
95	Facile Production of Hexagonal Boron Nitride Nanoparticles by Cryogenic Exfoliation. <i>Nano Letters</i> , 2019 , 19, 5417-5422	11.5	12	
94	Phonon-induced dephasing of chromium color centers in diamond. <i>Physical Review B</i> , 2012 , 86,	3.3	12	
93	Controlled tuning of whispering gallery modes of GaN/InGaN microdisk cavities. <i>Applied Physics Letters</i> , 2011 , 99, 111111	3.4	12	
92	Growth of SiO(x) nanowires by laser ablation. <i>Nanotechnology</i> , 2008 , 19, 065608	3.4	12	
91	Quantum Energy and Charge Transfer at Two-Dimensional Interfaces. <i>Nano Letters</i> , 2021 , 21, 1193-1204	411.5	12	

90	Two-Dimensional Hexagonal Boron Nitride for Building Next-Generation Energy-Efficient Devices. <i>ACS Energy Letters</i> , 2021 , 6, 985-996	20.1	12
89	Versatile multicolor nanodiamond probes for intracellular imaging and targeted labeling. <i>Journal of Materials Chemistry B</i> , 2018 , 6, 3078-3084	7.3	11
88	Room-temperature optically detected magnetic resonance of single defects in hexagonal boron nitride <i>Nature Communications</i> , 2022 , 13, 618	17.4	11
87	Scalable and Deterministic Fabrication of Quantum Emitter Arrays from Hexagonal Boron Nitride. <i>Nano Letters</i> , 2021 , 21, 3626-3632	11.5	11
86	Uranyl oxide hydrate phases with heavy lanthanide ions: [Ln(UO2)2O3(OH)][D.5H2O (Ln = Tb, Dy, Ho and Yb). <i>New Journal of Chemistry</i> , 2018 , 42, 12386-12393	3.6	11
85	Suppression of spectral diffusion by anti-Stokes excitation of quantum emitters in hexagonal boron nitride. <i>Applied Physics Letters</i> , 2019 , 115, 071102	3.4	10
84	Effects of microstructure and growth conditions on quantum emitters in gallium nitride. <i>APL Materials</i> , 2019 , 7, 081106	5.7	10
83	Highly uniform InGaAs/InP quantum well nanowire array-based light emitting diodes. <i>Nano Energy</i> , 2020 , 71, 104576	17.1	10
82	Photonic Nanobeam Cavities with Nanopockets for Efficient Integration of Fluorescent Nanoparticles. <i>Nano Letters</i> , 2020 , 20, 2784-2790	11.5	10
81	Optical properties of implanted Xe color centers in diamond. <i>Optics Communications</i> , 2018 , 411, 182-18	62	10
81 80	Optical properties of implanted Xe color centers in diamond. <i>Optics Communications</i> , 2018 , 411, 182-18 Localization of Narrowband Single Photon Emitters in Nanodiamonds. <i>ACS Applied Materials & Materials & Interfaces</i> , 2016 , 8, 7590-4	62 9.5	10
	Localization of Narrowband Single Photon Emitters in Nanodiamonds. ACS Applied Materials & Company (1988)		
80	Localization of Narrowband Single Photon Emitters in Nanodiamonds. <i>ACS Applied Materials & Amp; Interfaces</i> , 2016 , 8, 7590-4 Study of narrowband single photon emitters in polycrystalline diamond films. <i>Applied Physics</i>	9·5 3·4	10
80 79	Localization of Narrowband Single Photon Emitters in Nanodiamonds. <i>ACS Applied Materials & Amp; Interfaces</i> , 2016 , 8, 7590-4 Study of narrowband single photon emitters in polycrystalline diamond films. <i>Applied Physics Letters</i> , 2014 , 105, 181104	9·5 3·4	10
80 79 78	Localization of Narrowband Single Photon Emitters in Nanodiamonds. <i>ACS Applied Materials & Amp; Interfaces</i> , 2016 , 8, 7590-4 Study of narrowband single photon emitters in polycrystalline diamond films. <i>Applied Physics Letters</i> , 2014 , 105, 181104 Optical Third-Harmonic Generation in Hexagonal Boron Nitride Thin Films. <i>ACS Photonics</i> , 2021 , 8, 824-8 Tuning Enhancement Efficiency of Multiple Emissive Centers in Graphene Quantum Dots by	9.5 3.4 3 3 13	10
80 79 78 77	Localization of Narrowband Single Photon Emitters in Nanodiamonds. <i>ACS Applied Materials & Amp; Interfaces</i> , 2016 , 8, 7590-4 Study of narrowband single photon emitters in polycrystalline diamond films. <i>Applied Physics Letters</i> , 2014 , 105, 181104 Optical Third-Harmonic Generation in Hexagonal Boron Nitride Thin Films. <i>ACS Photonics</i> , 2021 , 8, 824-8 Tuning Enhancement Efficiency of Multiple Emissive Centers in Graphene Quantum Dots by Core-Shell Plasmonic Nanoparticles. <i>Journal of Physical Chemistry Letters</i> , 2017 , 8, 5673-5679	9.5 3.4 3 3 13	10 10 10
80 79 78 77 76	Localization of Narrowband Single Photon Emitters in Nanodiamonds. <i>ACS Applied Materials & Amp; Interfaces</i> , 2016 , 8, 7590-4 Study of narrowband single photon emitters in polycrystalline diamond films. <i>Applied Physics Letters</i> , 2014 , 105, 181104 Optical Third-Harmonic Generation in Hexagonal Boron Nitride Thin Films. <i>ACS Photonics</i> , 2021 , 8, 824-8 Tuning Enhancement Efficiency of Multiple Emissive Centers in Graphene Quantum Dots by Core-Shell Plasmonic Nanoparticles. <i>Journal of Physical Chemistry Letters</i> , 2017 , 8, 5673-5679 Quantum emission from localized defects in zinc sulfide. <i>Optics Letters</i> , 2019 , 44, 4873-4876	9.5 3.4 3 35 1 ₃ 6.4	10 10 10 9 9

(2018-2020)

72	Optical Thermometry with Quantum Emitters in Hexagonal Boron Nitride. <i>ACS Applied Materials & Amp; Interfaces</i> , 2020 , 12, 25464-25470	9.5	8
71	Electrical excitation and charge-state conversion of silicon vacancy color centers in single-crystal diamond membranes. <i>Applied Physics Letters</i> , 2020 , 116, 101103	3.4	8
70	Electron beam controlled restructuring of luminescence centers in polycrystalline diamond. <i>ACS Applied Materials & Discourse (Materials & Discours)</i> 10367-72	9.5	8
69	Photoinduced blinking in a solid-state quantum system. <i>Physical Review B</i> , 2017 , 96,	3.3	8
68	A full free spectral range tuning of p-i-n doped gallium nitride microdisk cavity. <i>Applied Physics Letters</i> , 2012 , 101, 161105	3.4	8
67	Photodynamics and quantum efficiency of germanium vacancy color centers in diamond. <i>Advanced Photonics</i> , 2019 , 1, 1	8.1	8
66	Bottom up engineering of single crystal diamond membranes with germanium vacancy color centers. <i>Optical Materials Express</i> , 2019 , 9, 4708	2.6	8
65	Determination of the Dipole Orientation of Single Defects in Hexagonal Boron Nitride. <i>ACS Photonics</i> , 2020 , 7, 2056-2063	6.3	8
64	Versatile direct-writing of dopants in a solid state host through recoil implantation. <i>Nature Communications</i> , 2020 , 11, 5039	17.4	8
63	Near-Field Excited Archimedean-like Tiling Patterns in Phonon-Polaritonic Crystals. <i>ACS Nano</i> , 2021 , 15, 9134-9142	16.7	8
62	Quantum random number generation using a hexagonal boron nitride single photon emitter. <i>Journal of Optics (United Kingdom)</i> , 2021 , 23, 01LT01	1.7	7
61	Near-Field Energy Transfer between a Luminescent 2D Material and Color Centers in Diamond. <i>Advanced Quantum Technologies</i> , 2020 , 3, 1900088	4.3	7
60	Coupling Spin Defects in Hexagonal Boron Nitride to Monolithic Bullseye Cavities. <i>Nano Letters</i> , 2021 , 21, 6549-6555	11.5	7
59	Facile Self-Assembly of Quantum Plasmonic Circuit Components. <i>Advanced Materials</i> , 2015 , 27, 4048-53	24	6
58	Tunable Fiber-Cavity Enhanced Photon Emission from Defect Centers in hBN. <i>Advanced Optical Materials</i> , 2021 , 9, 2002218	8.1	6
57	Photoluminescence of nanodiamonds influenced by charge transfer from silicon and metal substrates. <i>Diamond and Related Materials</i> , 2016 , 63, 91-96	3.5	6
56	Design of photonic microcavities in hexagonal boron nitride. <i>Beilstein Journal of Nanotechnology</i> , 2018 , 9, 102-108	3	6
55	In situ study of the precursor conversion reactions during solventless synthesis of CoS, NiS, Co and Ni nanowires. <i>Nanoscale</i> , 2018 , 10, 15669-15676	7.7	5

54	Micro-Patterned Surfaces That Exploit Stigmergy to Inhibit Biofilm Expansion. <i>Frontiers in Microbiology</i> , 2016 , 7, 2157	5.7	5
53	Coupling Spin Defects in a Layered Material to Nanoscale Plasmonic Cavities. <i>Advanced Materials</i> , 2021 , e2106046	24	5
52	Direct Growth of Hexagonal Boron Nitride on Photonic Chips for High-Throughput Characterization. <i>ACS Photonics</i> , 2021 , 8, 2033-2040	6.3	5
51	Integration of hBN Quantum Emitters in Monolithically Fabricated Waveguides. ACS Photonics,	6.3	5
50	Diamond nanocrystals for photonics and sensing. <i>Japanese Journal of Applied Physics</i> , 2014 , 53, 05FA01	1.4	4
49	Optical Repumping of Resonantly Excited Quantum Emitters in Hexagonal Boron Nitride. <i>Physical Review Applied</i> , 2020 , 14,	4.3	4
48	[U(HO)]{[(UO)O(OH)][(UO)(HO)]}: A Mixed-Valence Uranium Oxide Hydrate Framework. <i>Inorganic Chemistry</i> , 2020 , 59, 12166-12175	5.1	4
47	Site control of quantum emitters in gallium nitride by polarity. <i>Applied Physics Letters</i> , 2021 , 118, 02110	33.4	4
46	Large few-layer hexagonal boron nitride flakes for nonlinear optics. <i>Optics Letters</i> , 2021 , 46, 564-567	3	4
45	Charge and energy transfer of quantum emitters in 2D heterostructures. 2D Materials, 2020, 7, 031001	5.9	3
44	Photonic devices fabricated from (111)-oriented single crystal diamond. <i>Informa</i> Materilly, 2020 , 2, 1241-1246	23.1	3
43	Simultaneously enhanced linear and nonlinear photon generations from WS2 by using dielectric circular Bragg resonators. <i>Nanophotonics</i> , 2020 , 9, 2587-2592	6.3	3
42	Purcell Enhancement of a Cavity-Coupled Emitter in Hexagonal Boron Nitride. Small, 2021, e2104805	11	3
41	Enhanced Emission from Interlayer Excitons Coupled to Plasmonic Gap Cavities. <i>Small</i> , 2021 , 17, e21039	94	3
40	One-Step Nanoscale Patterning of Silver Nanowire Nitride Heterostructures Using Substrate-Assisted Chemical Etching. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 945-949	3.8	3
39	Grain Dependent Growth of Bright Quantum Emitters in Hexagonal Boron Nitride. <i>Advanced Optical Materials</i> , 2021 , 9, 2001271	8.1	3
38	Bottom-Up Synthesis of Hexagonal Boron Nitride Nanoparticles with Intensity-Stabilized Quantum Emitters. <i>Small</i> , 2021 , 17, e2008062	11	3
37	Radiation-Induced Damage and Recovery of Ultra-Nanocrystalline Diamond: Toward Applications in Harsh Environments. <i>ACS Applied Materials & Diamond</i> , 19, 39790-39794	9.5	2

36	Role of knock-on in electron beam induced etching of diamond. <i>Carbon</i> , 2020 , 164, 51-58	10.4	2
35	Resonant energy transfer between hexagonal boron nitride quantum emitters and atomically layered transition metal dichalcogenides. <i>2D Materials</i> , 2020 , 7, 045015	5.9	2
34	Role of recombination pathway competition in spatially resolved cathodoluminescence spectroscopy. <i>Applied Physics Letters</i> , 2014 , 105, 241112	3.4	2
33	Brilliant explosions. <i>Nature Materials</i> , 2012 , 11, 996	27	2
32	Generation of High-Density Quantum Emitters in High-Quality, Exfoliated Hexagonal Boron Nitride. <i>ACS Applied Materials & Discrete Section</i> , 13, 47283-47292	9.5	2
31	Nanofabrication of high , transferable diamond resonators. <i>Nanoscale</i> , 2021 , 13, 8848-8854	7.7	2
30	Quantum emission from atomic defects in wide-bandgap semiconductors 2017,		1
29	Controlled Doping of GeV and SnV Color Centers in Diamond Using Chemical Vapor Deposition. <i>ACS Applied Materials & Diamond Using Chemical Vapor Deposition</i> .	9.5	1
28	Black Phosphorus: Ambient Protection of Few-Layer Black Phosphorus via Sequestration of Reactive Oxygen Species (Adv. Mater. 27/2017). <i>Advanced Materials</i> , 2017 , 29,	24	1
27	Formation of Dynamic Topographic Patterns During Electron Beam Induced Etching of Diamond. <i>Microscopy and Microanalysis</i> , 2017 , 23, 2264-2265	0.5	1
26	Sensors: Plasmonic Metamaterial Sensor with Ultra-High Sensitivity in the Visible Spectral Range (Advanced Optical Materials 6/2015). <i>Advanced Optical Materials</i> , 2015 , 3, 716-716	8.1	1
25	Gas-mediated charged particle beam processing of nanostructured materials 2014,		1
24	Novel Single Photon Emitters Based on Color Centers in Diamond 2011,		1
23	Impurities in diamond: a new revival for quantum optics 2010,		1
22	Quantum Emitters in Two-dimensional Hexagonal Boron Nitride 2020,		1
21	Quantum Emission from Hexagonal Boron Nitride Monolayers 2016 ,		1
20	Anti-Stokes Excitation of Solid-State Quantum Emitters for Nanoscale Thermometry 2019,		1
19	Hybrid device of hexagonal boron nitride nanoflakes with defect centres and a nano-fibre Bragg cavity <i>Scientific Reports</i> , 2022 , 12, 96	4.9	1

18	Observation of Binary Spectral Jumps in Color Centers in Diamond. <i>Advanced Optical Materials</i> , 2020 , 8, 2000495	8.1	1
17	Fabrication of Photonic Resonators in Bulk 4H-SiC. Advanced Materials Technologies, 2021 , 6, 2100589	6.8	1
16	Ultra-bright emission from hexagonal boron nitride defects as a new platform for bio-imaging and bio-labelling 2016 ,		1
15	Engineering of Room Temperature Spin Defects in Hexagonal Boron Nitride 2021,		1
14	Phonon dephasing and spectral diffusion of quantum emitters in hexagonal boron nitride. <i>Optica</i> , 2021 , 8, 1153	8.6	1
13	Integrated room temperature single-photon source for quantum key distribution <i>Optics Letters</i> , 2022 , 47, 1673-1676	3	1
12	Clearly identical photons. <i>Nature Nanotechnology</i> , 2019 , 14, 502-503	28.7	O
11	Gas-Mediated Electron Beam Induced Etching - From Fundamental Physics to Device Fabrication. <i>Microscopy and Microanalysis</i> , 2014 , 20, 364-365	0.5	O
10	Quantification of single-strand DNA by sequence-specific counting in capillary flow cytometry. <i>Metrologia</i> , 2020 , 57, 065019	2.1	0
9	A Random Laser Based on Hybrid Fluorescent Dye and Diamond Nanoneedles. <i>Physica Status Solidi - Rapid Research Letters</i> , 2019 , 13, 1800513	2.5	O
8	Diamond membranes for photonic devices. Semiconductors and Semimetals, 2021, 104, 173-217	0.6	0
7	Spectroscopy: Mapping spins in flatland. <i>Nature Materials</i> , 2017 , 16, 397-398	27	
6	Valley Polarization: A Single Chiral Nanoparticle Induced Valley Polarization Enhancement (Small 37/2020). <i>Small</i> , 2020 , 16, 2070204	11	
5	Resonant excitation of quantum emitters in gallium nitride. <i>Optica</i> , 2018 , 5, 932	8.6	
4	Single Color Centers in Diamond: Materials, Devices, and Applications 2014 , 469-491		
3	Materials and Devices for Quantum Photonics: introduction to special issue. <i>Optical Materials Express</i> , 2020 , 10, 715	2.6	
2	Bottom-Up Synthesis of Single Crystal Diamond Pyramids Containing Germanium Vacancy Centers. <i>Advanced Quantum Technologies</i> , 2021 , 4, 2100037	4.3	
1	Recoil implantation using gas-phase precursor molecules. <i>Nanoscale</i> , 2021 , 13, 9322-9327	7.7	