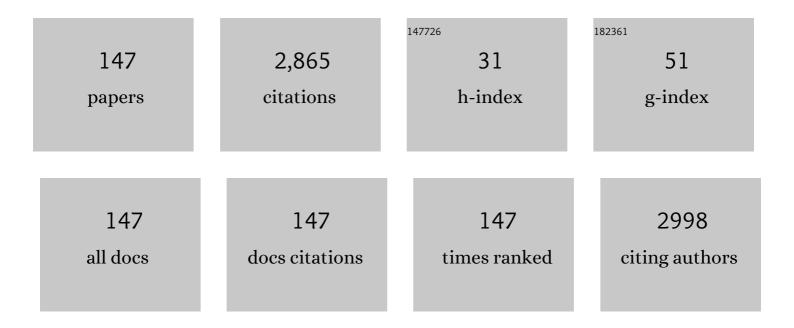
Harish Subbaraman

List of Publications by Year in descending order

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HADISH SUBBADAMAN

#	Article	IF	CITATIONS
1	Real-time measurement of parametric influences on the refractive index and length changes in silica optical fibers. Optics Express, 2022, 30, 15659.	1.7	1
2	Experimental validation of a reflective long period grating design methodology. Results in Optics, 2022, 7, 100224.	0.9	2
3	Differently Structured Fabry-Perot Interferometers for Gas Pressure Monitoring. IEEE Sensors Journal, 2022, 22, 14102-14108.	2.4	4
4	Chalcogenide Glass-Capped Fiber-Optic Sensor for Real-Time Temperature Monitoring in Extreme Environments. Sensors, 2021, 21, 1616.	2.1	7
5	Reflective long period grating based temperature sensor. , 2021, , .		1
6	Numerical Analysis of Radiation Effects on Fiber Optic Sensors. Sensors, 2021, 21, 4111.	2.1	4
7	Generating Concentrically Embedded Spatially Divided OAM Carrying Vortex Beams Using Transmitarrays. IEEE Transactions on Antennas and Propagation, 2021, 69, 8436-8448.	3.1	14
8	Simulation of 2D Model of Dielectric Barrier Discharge for Flexible Hybrid Electronics. , 2021, , .		1
9	Reflective Long Period Grating Based Refractive Index Sensor. , 2021, , .		Ο
10	Active Compensation of Radiation Effects on Optical Fibers for Sensing Applications. Sensors, 2021, 21, 8193.	2.1	3
11	Fully inkjet-printed multilayered graphene-based flexible electrodes for repeatable electrochemical response. RSC Advances, 2020, 10, 38205-38219.	1.7	17
12	Inkjet-Printed Graphene-Based 1 × 2 Phased Array Antenna. Micromachines, 2020, 11, 863.	1.4	18
13	A Review of Inkjet Printed Graphene and Carbon Nanotubes Based Gas Sensors. Sensors, 2020, 20, 5642.	2.1	53
14	Phase change in Ge–Se chalcogenide glasses and its implications on optical temperature-sensing devices. Journal of Materials Science: Materials in Electronics, 2020, 31, 11211-11226.	1.1	9
15	Polarization filter realization using low-loss hollow-core anti-resonant fiber in THz regime. Results in Physics, 2020, 17, 103092.	2.0	24
16	Towards the design of a wideband reflective long period grating distributed sensor. Journal of Physics Communications, 2020, 4, 065015.	0.5	3
17	A simple and cost-effective metal coating method for reflective long period grating sensors. , 2020, , .		1
18	A novel tri-band reconfigurable microstrip patch antenna. Frequenz, 2020, 74, 247-253.	0.6	3

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19	Materials Characterization of Thin Films Printed with Ge20Se80 Ink. Microscopy and Microanalysis, 2019, 25, 2606-2607.	0.2	2
20	High Speed Roll-to-Roll Printable Transistor Enabled by a Pulsed Light Curable CNT Ink. Journal of Manufacturing and Materials Processing, 2019, 3, 33.	1.0	7
21	Role of Metal Coating Parameters on the Reflective Long Period Grating Spectrum. , 2019, , .		1
22	Aerosol Jet Printing of Ti3C2 Mxene Aqueous Ink. ECS Meeting Abstracts, 2019, , .	0.0	1
23	Inkjet printing enabled rapid prototyping and model verification processes. , 2019, , .		Ο
24	Silicon-Based Hybrid Integrated Photonic Chip for K \${}_{u}\$ band Electromagnetic Wave Sensing. Journal of Lightwave Technology, 2018, 36, 1568-1575.	2.7	21
25	Spiral Photonic Crystal Fiber-Based Dual-Polarized Surface Plasmon Resonance Biosensor. IEEE Sensors Journal, 2018, 18, 133-140.	2.4	216
26	Low loss and flat dispersion Kagome photonic crystal fiber in the terahertz regime. Optics Communications, 2018, 410, 452-456.	1.0	42
27	Modeling of the Creation of an Internal Cladding in Sapphire Optical Fiber Using the ⁶ Li(n,α) ³ H Reaction. Journal of Lightwave Technology, 2018, 36, 5381-5387.	2.7	7
28	A Highly Sensitive, Polarization Maintaining Photonic Crystal Fiber Sensor Operating in the THz Regime. Photonics, 2018, 5, 40.	0.9	22
29	Low Loss and Low Dispersion Fiber for Transmission Applications in the Terahertz Regime. IEEE Photonics Technology Letters, 2017, 29, 830-833.	1.3	28
30	Inkjet Printing of High Performance Transistors with Micron Order Chemically Set Gaps. Scientific Reports, 2017, 7, 1202.	1.6	58
31	Ultra-compact electromagnetic wave sensor featuring electro-optics polymer infiltrated one-dimensional photonic-crystal-slotted waveguide (Conference Presentation). , 2017, , .		0
32	High speed attojoule/bit passive and active nanophotonic devices for computing and optical interconnects (Conference Presentation). , 2017, , .		0
33	One-dimensional photonic crystal slot waveguide for silicon-organic hybrid electro-optic modulators. , 2017, , .		2
34	Observation of Third-order Nonlinearities in Graphene Oxide Film at Telecommunication Wavelengths. Scientific Reports, 2017, 7, 9646.	1.6	38
35	One-dimensional photonic crystal slot waveguide for silicon-organic hybrid electro-optic modulators. Optics Letters, 2016, 41, 5466.	1.7	35
36	RF beam transmission of x-band PAA system utilizing large-area, polymer-based true-time-delay module developed using imprinting and inkjet printing. , 2016, , .		1

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37	Towards a fully packaged high-performance RF sensor featuring slotted photonic crystal waveguides. , 2016, , .		1
38	Printed photonic elements: nanoimprinting and beyond. Journal of Materials Chemistry C, 2016, 4, 5133-5153.	2.7	71
39	Novel Printed Filtenna With Dual Notches and Good Out-of-Band Characteristics for UWB-MIMO Applications. IEEE Microwave and Wireless Components Letters, 2016, 26, 765-767.	2.0	83
40	Geometrical tuning art for entirely subwavelength grating waveguide based integrated photonics circuits. Scientific Reports, 2016, 6, 24106.	1.6	35
41	Printed polymer photonic devices for optical interconnect systems. , 2016, , .		1
42	X-band printed phased array antennas using high-performance CNT/ion gel/Ag transistors. , 2016, , .		6
43	Integrated Broadband Bowtie Antenna on Transparent Silica Substrate. IEEE Antennas and Wireless Propagation Letters, 2016, 15, 1377-1381.	2.4	22
44	High Performance Optical Modulator Based on Electro-Optic Polymer Filled Silicon Slot Photonic Crystal Waveguide. Journal of Lightwave Technology, 2016, 34, 2941-2951.	2.7	81
45	Design of a plasmonic-organic hybrid slot waveguide integrated with a bowtie-antenna for terahertz wave detection. Proceedings of SPIE, 2016, , .	0.8	4
46	Silicon-organic Hybrid Electro-optic Modulator Based on One-dimensional Photonic Crystal Slot Waveguides. , 2016, , .		3
47	Quasi-vertical tapers for polymer-waveguide-based interboard optical interconnects. Photonics Research, 2015, 3, 317.	3.4	15
48	Reconfigurable thermo-optic polymer switch based true-time-delay network utilizing imprinting and inkjet printing. , 2015, , .		2
49	Design of Highly Efficient Hybrid Si-Au Taper for Dielectric Strip Waveguide to Plasmonic Slot Waveguide Mode Converter. Journal of Lightwave Technology, 2015, 33, 535-540.	2.7	29
50	Ultralow-loss waveguide crossings for the integration of microfluidics and optical waveguide sensors. Proceedings of SPIE, 2015, , .	0.8	1
51	Backside-gate-assisted broadband modulation on silicon-polymer hybrid photonic crystal waveguide. , 2015, , .		Ο
52	Integrated broadband bowtie antenna on transparent substrate. Proceedings of SPIE, 2015, , .	0.8	0
53	Antenna-coupled silicon-organic hybrid integrated photonic crystal modulator for broadband electromagnetic wave detection. Proceedings of SPIE, 2015, , .	0.8	3
54	High optical coupling efficiency quasi-vertical taper for polymer waveguide devices. Proceedings of SPIE, 2015, , .	0.8	2

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55	Microfluidic channels with ultralow-loss waveguide crossings for various chip-integrated photonic sensors. Optics Letters, 2015, 40, 1563.	1.7	19
56	Recent advances in silicon-based passive and active optical interconnects. Optics Express, 2015, 23, 2487.	1.7	234
57	Bending behavior of a flexible single crystal nanomembrane photonic crystal cavity. , 2015, , .		Ο
58	Broadband energy-efficient optical modulation by hybrid integration of silicon nanophotonics and organic electro-optic polymer. Proceedings of SPIE, 2015, , .	0.8	1
59	Low-loss mode converter for coupling light into slotted photonic crystal waveguide. Proceedings of SPIE, 2015, , .	0.8	Ο
60	High-speed Energy-efficient Silicon-polymer Hybrid Integrated Slot Photonic Crystal Waveguide Modulator. , 2015, , .		0
61	Bending Behavior of Flexible Crystalline Silicon Nanomembrane Photonic Crystal Microcavities. , 2015, , .		Ο
62	Low-loss Mode Converter for Silicon-Polymer Hybrid Slot Photonic Crystal Waveguide. , 2015, , .		0
63	Broadband Low-power Optical Modulator Based on Electro-optic Polymer Infiltrated Silicon Slot Photonic Crystal Waveguide. , 2014, , .		6
64	Towards Realizing High-Throughput, Roll-to-Roll Manufacturing of Flexible Electronic Systems. Electronics (Switzerland), 2014, 3, 624-635.	1.8	26
65	High-performance conformal sensors employing single-crystal silicon nanomembranes. Proceedings of SPIE, 2014, , .	0.8	0
66	Methods to array photonic crystal microcavities for high throughput high sensitivity biosensing on a silicon-chip based platform. Proceedings of SPIE, 2014, , .	0.8	1
67	Reconfigurable Thermo-Optic Polymer Switch Based True-Time-Delay Network Utilizing Imprinting and Inkjet Printing. , 2014, , .		6
68	Electro-optic Polymer Infiltrated Silicon Slot Photonic Crystal Waveguide for Broadband Electromagnetic Field Sensing. , 2014, , .		1
69	Integrated strip and slot waveguides in silicon-on-sapphire for mid infrared VOC detection in water. , 2014, , .		1
70	Micro-fluid Channel Based on Ultralow-loss Silicon Crossing Waveguide for Various Sensing. , 2014, ,		0
71	Grating-coupled silicon-on-sapphire integrated slot waveguides operating at mid-infrared wavelengths. Optics Letters, 2014, 39, 3070.	1.7	55
72	On-chip silicon optical phased array for two-dimensional beam steering. Optics Letters, 2014, 39, 941.	1.7	149

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73	Flexible Single-Crystal Silicon Nanomembrane Photonic Crystal Cavity. ACS Nano, 2014, 8, 12265-12271.	7.3	35
74	Highly efficient mode converter for coupling light into wide slot photonic crystal waveguide. Optics Express, 2014, 22, 20678.	1.7	41
75	Towards roll-to-roll manufacturing of polymer photonic devices. Proceedings of SPIE, 2014, , .	0.8	1
76	Integrated Photonic Electromagnetic Field Sensor Based on Broadband Bowtie Antenna Coupled Silicon Organic Hybrid Modulator. Journal of Lightwave Technology, 2014, 32, 3774-3784.	2.7	113
77	Optimization of highly efficient mode converter for coupling light into large-slot photonic crystal waveguide. , 2014, , .		Ο
78	Silicon nanomembrane-based compact true-time-delay module on unconventional substrates. , 2014, , .		0
79	Electric Field Detection Using an Electro-optic Polymer Refilled Silicon Slot Photonic Crystal Waveguide. , 2014, , .		3
80	Wideband Electromagnetic Wave Sensing Using Electro-optic Polymer Infiltrated Silicon Slot Photonic Crystal Waveguide. , 2014, , .		1
81	Flexible Crystalline Silicon Nanomembrane Photonic Crystal Microcavity. , 2014, , .		Ο
82	2D silicon-based surface-normal vertical cavity photonic crystal waveguide array for high-density optical interconnects. Proceedings of SPIE, 2013, , .	0.8	0
83	Polymer-Based Hybrid-Integrated Photonic Devices for Silicon On-Chip Modulation and Board-Level Optical Interconnects. IEEE Journal of Selected Topics in Quantum Electronics, 2013, 19, 196-210.	1.9	86
84	Towards high-rate fabrication of photonic devices utilizing a combination of roll-to-roll compatible imprint lithography and ink jet printing methods. , 2013, , .		1
85	A 3µm channel, ink-jet printed CNT-TFT for phased array antenna applications. , 2013, , .		5
86	Intra- and inter- board optical interconnects by polymeric waveguides and mirror coupler with inkjet-printed micro-lenses. , 2013, , .		0
87	Large Area Silicon Nanomembrane Photonic Devices on Unconventional Substrates. IEEE Photonics Technology Letters, 2013, 25, 1601-1604.	1.3	8
88	Large area transferred silicon nanomembrane photonic devices on unconventional substrates. , 2013, ,		1
89	Colorless grating couplers realized by interleaving dispersion engineered subwavelength structures. Optics Letters, 2013, 38, 3588.	1.7	42
90	Ultraviolet imprinting and aligned ink-jet printing for multilayer patterning of electro-optic polymer modulators. Optics Letters, 2013, 38, 1597.	1.7	44

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91	Low-cost board-to-board optical interconnects using molded polymer waveguide with 45 degree mirrors and inkjet-printed micro-lenses as proximity vertical coupler. Optics Express, 2013, 21, 60.	1.7	63
92	Printable thermo-optic polymer switches utilizing imprinting and ink-jet printing. Optics Express, 2013, 21, 2110.	1.7	36
93	Inkjet-Printed Two-Dimensional Phased-Array Antenna on a Flexible Substrate. IEEE Antennas and Wireless Propagation Letters, 2013, 12, 170-173.	2.4	63
94	Inkjet printing of carrier transport layers for inverted organic solar cells. Proceedings of SPIE, 2013, ,	0.8	0
95	Board-to-board optical interconnects utilizing molded embedded 45 degree mirrors and print-on-demand micro-lenses as proximity vertical coupler. Proceedings of SPIE, 2013, , .	0.8	1
96	Silicon nanomembrane based photonic crystal waveguide true-time-delay lines on a glass substrate. , 2013, , .		0
97	Subwavelength grating couplers for efficient light coupling into silicon nanomembrane based photonic devices. , 2013, , .		Ο
98	Colorless Grating Couplers Realized by Interleaving Dispersion Engineered Subwavelength Structures. , 2013, , .		0
99	Printable EO-Polymer Modulators. , 2013, , .		1
100	Polymeric Thermo-Optic Switch with Imprinting and Print-on-Demand Technology. , 2013, , .		0
101	Silicon Nanomembrane Based Photonic Devices on Foreign Substrates. , 2013, , .		0
102	Polymeric Micro-Lenses Aided Free Space Optical Interconnects. , 2013, , .		0
103	Large optical spectral range dispersion engineered silicon-based photonic crystal waveguide modulator. Optics Express, 2012, 20, 12318.	1.7	39
104	Efficient light coupling into in-plane semiconductor nanomembrane photonic devices utilizing a sub-wavelength grating coupler. Optics Express, 2012, 20, 20659.	1.7	29
105	Stamp printing of silicon-nanomembrane-based photonic devices onto flexible substrates with a suspended configuration. Optics Letters, 2012, 37, 1020.	1.7	43
106	Silicon nanomembrane based photonic crystal waveguide array for wavelength-tunable true-time-delay lines. Applied Physics Letters, 2012, 101, 051101.	1.5	36
107	Complementary metal–oxide–semiconductor compatible high efficiency subwavelength grating couplers for silicon integrated photonics. Applied Physics Letters, 2012, 101, .	1.5	113
108	CMOS compatible subwavelength grating couplers for silicon integrated photonics. , 2012, , .		2

CMOS compatible subwavelength grating couplers for silicon integrated photonics. , 2012, , . 108

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109	Si photonic crystal waveguide based delay lines. Proceedings of SPIE, 2012, , .	0.8	1
110	Silicon nanomembranes for high-performance flexible photonic interconnects and devices. Proceedings of SPIE, 2012, , .	0.8	0
111	Metrology and instrumentation challenges with high-rate, roll-to-roll manufacturing of flexible electronic systems. Proceedings of SPIE, 2012, , .	0.8	6
112	Extremely low V <inf>π</inf> ×L slow light photonic crystal modulator with GHz bandwidth. , 2012, , .		0
113	Stamp Printing of Silicon Nanomembrane Based Flexible Photonic Devices. , 2012, , .		1
114	Self-Aligned Carbon Nanotube Thin-Film Transistors on Flexible Substrates With Novel Source–Drain Contact and Multilayer Metal Interconnection. IEEE Nanotechnology Magazine, 2012, 11, 44-50.	1.1	16
115	Conformal Ink-Jet Printed \$C\$-Band Phased-Array Antenna Incorporating Carbon Nanotube Field-Effect Transistor Based Reconfigurable True-Time Delay Lines. IEEE Transactions on Microwave Theory and Techniques, 2012, 60, 179-184.	2.9	38
116	CMOS Compatible, High Efficiency Subwavelength Grating Couplers for Silicon Integrated Photonics. , 2012, , .		0
117	Wavelength-Tunable on-Chip True Time Delay Lines Based on Photonic Crystal Waveguides for X-Band Phased Array Antenna Applications. , 2012, , .		0
118	Light Weight and Conformal 2-Bit, 1\$,imes,\$4 Phased-Array Antenna With CNT-TFT-Based Phase Shifter on a Flexible Substrate. IEEE Transactions on Antennas and Propagation, 2011, 59, 4553-4558.	3.1	25
119	On the role of evanescent modes and group index tapering in slow light photonic crystal waveguide coupling efficiency. Applied Physics Letters, 2011, 98, .	1.5	49
120	Phase shifter using carbon nanotube thin-film transistor for flexible phased-array antenna. Proceedings of SPIE, 2011, , .	0.8	2
121	One stage pulse compression at 1554nm through highly anomalous dispersive photonic crystal fiber. Optics Express, 2011, 19, 21809.	1.7	9
122	Group-index independent coupling to band engineered SOI photonic crystal waveguide with large slow-down factor. Optics Express, 2011, 19, 21832.	1.7	30
123	All-Printed Thin-Film Transistor Based on Purified Single-Walled Carbon Nanotubes with Linear Response. Journal of Nanotechnology, 2011, 2011, 1-4.	1.5	5
124	On the Mechanism of Efficient Coupling into Slow Light Photonic Crystal Waveguides. , 2011, , .		0
125	Transfer and characterization of silicon nanomembrane-based photonic devices on flexible polyimide substrate. , 2011, , .		2
126	Flexible In-plane Photonic Devices Based on Transferrable Si Nanomembranes on Polyimide Film. Journal of Physics: Conference Series, 2011, 276, 012096.	0.3	1

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127	1× N Multimode Interference Beam Splitter Design Techniques for On-Chip Optical Interconnections. IEEE Journal of Selected Topics in Quantum Electronics, 2011, 17, 510-515.	1.9	40
128	Low dispersion slow light in silicon-on-insulator photonic crystal waveguide. , 2010, , .		3
129	Bending tests of carbon nanotube thin-film transistors on flexible substrate. , 2010, , .		4
130	Transfer of micro and nano-photonic silicon nanomembrane waveguide devices on flexible substrates. Optics Express, 2010, 18, 20086.	1.7	22
131	Optimum access waveguide width for 1×N multimode interference couplers on silicon nanomembrane. Optics Letters, 2010, 35, 2864.	1.7	31
132	Demonstration of compact 2×2 multimode interference coupler on silicon nanomembrane. , 2010, , .		0
133	Silicon nano- and micro-photonic devices. , 2009, , .		0
134	Modified slab photonic crystal structure for delay time enhancement using capsule shaped holes. , 2009, , .		0
135	Spurious-Free Dynamic Range (SFDR) improvement in a true-time-delay system based on highly dispersive photonic crystal fiber. , 2009, , .		1
136	Fully printed phased-array antenna for space communications. Proceedings of SPIE, 2009, , .	0.8	9
137	Dual-concentric-core Photonic Crystal Fiber with â^'5400ps/nm/km Dispersion Coefficient. , 2009, , .		3
138	Photonic Crystal Fiber Beamformer for Multiple \$X\$-Band Phased-Array Antenna Transmissions. IEEE Photonics Technology Letters, 2008, 20, 375-377.	1.3	30
139	Reply to Comment on "Design of a broadband highly dispersive pure silica photonic crystal fiber― Applied Optics, 2008, 47, 3330.	2.1	2
140	Photonic dual RF beam reception of an X band phased array antenna using a photonic crystal fiber-based true-time-delay beamformer. Applied Optics, 2008, 47, 6448.	2.1	9
141	Photonic Crystal Fiber-Based True-Time-Delay Beamformer for Multiple RF Beam Transmission and Reception of an X-Band Phased-Array Antenna. Journal of Lightwave Technology, 2008, 26, 2803-2809.	2.7	46
142	All ink-jet-printed carbon nanotube thin-film transistor on a polyimide substrate with an ultrahigh operating frequency of over 5 GHz. Applied Physics Letters, 2008, 93, .	1.5	139
143	Simultaneous Dual RF Beam Reception of an X-Band Phased Array Antenna Utilizing Highly Dispersive Photonic Crystal Fiber Based True-Time-Delay. , 2008, , .		2
144	Highly dispersive photonic crystal fiber for beamforming. Proceedings of SPIE, 2007, , .	0.8	0

#	Article	IF	CITATIONS
145	Design of a broadband highly dispersive pure silica photonic crystal fiber. Applied Optics, 2007, 46, 3263.	2.1	28
146	Faculty Perspectives on the Impact of Virtual Office Hours in Engineering Courses. , 0, , .		0
147	Using Veterans' Technical Skills in an Engineering Laboratory. , 0, , .		0