Andrea Armani

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.

26 3,069 109 52 h-index g-index citations papers 3,888 5.63 174 7.2 L-index avg, IF ext. citations ext. papers

#	Paper	IF	Citations
109	Multifunctional photoresponsive organic molecule for electric field sensing and modulation. Journal of Materials Chemistry C, 2022, 10, 1204-1211	7.1	1
108	Conference demographics and footprint changed by virtual platforms. <i>Nature Sustainability</i> , 2022 , 5, 149-156	22.1	4
107	Stretchable optical diffraction grating from poly(acrylic acid)/polyethylene oxide stereocomplex. <i>Optics Letters</i> , 2021 , 46, 5493-5496	3	2
106	Supercontinuum Generation in High Order Waveguide Mode with near-Visible Pumping Using Aluminum Nitride Waveguides. <i>ACS Photonics</i> , 2021 , 8, 1344-1352	6.3	6
105	Low-tech solutions for the COVID-19 supply chain crisis. <i>Nature Reviews Materials</i> , 2020 , 1-4	73.3	51
104	How to organize an online conference. Nature Reviews Materials, 2020, 1-4	73.3	25
103	Optically tunable microresonator using an azobenzene monolayer. AIP Advances, 2020, 10, 045117	1.5	14
102	Emerging material systems for integrated optical Kerr frequency combs. <i>Advances in Optics and Photonics</i> , 2020 , 12, 135	16.7	37
101	Lightweight UV-C disinfection system. <i>Biomedical Optics Express</i> , 2020 , 11, 4326-4332	3.5	13
100	Nonlinear nanophotonic devices in the ultraviolet to visible wavelength range. <i>Nanophotonics</i> , 2020 , 9, 3781-3804	6.3	9
99	All-optical reversible control of integrated resonant cavity by a self-assembled azobenzene monolayer. <i>Optics Express</i> , 2020 , 28, 22462-22477	3.3	3
98	Cascaded Stokes and anti-Stokes laser based on an optical resonator with a self-assembled organic monolayer. <i>Optics Letters</i> , 2020 , 45, 4244-4247	3	1
97	Raman laser from an optical resonator with a grafted single-molecule monolayer. <i>Nature Photonics</i> , 2020 , 14, 95-101	33.9	20
96	Engineering photonics solutions for COVID-19. APL Photonics, 2020, 5, 090901	5.2	11
95	Normal dispersion silicon oxynitride microresonator Kerr frequency combs. <i>Applied Physics Letters</i> , 2019 , 115, 051105	3.4	7
94	A portable optical diagnostic system for rapid malaria screening 2019 ,		2
93	Low threshold anti-Stokes Raman laser on-chip. <i>Photonics Research</i> , 2019 , 7, 926	6	11

92	General strategy for doping rare earth metals into Au⁄InO coreBhell nanospheres. <i>Journal of Materials Research</i> , 2019 , 34, 3877-3886	2.5	2
91	Biomechanical Analysis of Porcine Cartilage Elasticity. <i>Annals of Biomedical Engineering</i> , 2019 , 47, 202-2	142.7	1
90	Low-threshold parametric oscillation in organically modified microcavities. <i>Science Advances</i> , 2018 , 4, eaao4507	14.3	26
89	Role of extracellular matrix in the biomechanical behavior of pancreatic tissue. <i>ACS Biomaterials Science and Engineering</i> , 2018 , 4, 1916-1923	5.5	2
88	Raman-Kerr frequency combs in Zr-doped silica hybrid microresonators. <i>Optics Letters</i> , 2018 , 43, 2949-2	952	13
87	Stimulated Anti-Stokes Raman Emission Generated by Gold Nanorod Coated Optical Resonators. <i>ACS Photonics</i> , 2018 , 5, 3550-3556	6.3	12
86	Environmentally stable integrated ultra-high-Q optical cavities 2018,		1
85	Rapid Diagnostic for Point-of-Care Malaria Screening. ACS Sensors, 2018, 3, 1264-1270	9.2	20
84	High-resolution analysis of the mechanical behavior of tissue. <i>Applied Physics Letters</i> , 2017 , 110, 243701	3.4	3
83	High-Speed "4D" Computational Microscopy of Bacterial Surface Motility. ACS Nano, 2017, 11, 9340-935	5 1 6.7	13
82	On-Chip Ultra-High-Q Silicon Oxynitride Optical Resonators. ACS Photonics, 2017, 4, 2376-2381	6.3	15
81	Characterization of the mechanical properties of resected porcine organ tissue using optical fiber photoelastic polarimetry. <i>Biomedical Optics Express</i> , 2017 , 8, 4663-4670	3.5	6
80	Plasmonically Enhanced Kerr Frequency Combs. ACS Photonics, 2017, 4, 2828-2834	6.3	16
79	Quantifying pulsed electric field-induced membrane nanoporation in single cells. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2016 , 1858, 2795-2803	3.8	11
78	Flexible UV Exposure Sensor Based on UV Responsive Polymer. ACS Sensors, 2016, 1, 1251-1255	9.2	43
77	High Efficiency Raman Lasers Based on Zr-Doped Silica Hybrid Microcavities. <i>ACS Photonics</i> , 2016 , 3, 238	3 3. 338	815
76	Two-Photon Microscopy Analysis of Gold Nanoparticle Uptake in 3D Cell Spheroids. <i>PLoS ONE</i> , 2016 , 11, e0167548	3.7	30
75	Wavelength-normalized spectroscopic analysis of and growth rates. <i>Biomedical Optics Express</i> , 2016 , 7, 4034-4042	3.5	35

74	On-chip asymmetric microcavity optomechanics. <i>Optics Express</i> , 2016 , 24, 29613-29623	3.3	1
73	Flexible Light-Emitting Nanocomposite Based on ZnO Nanotetrapods. <i>Nano Letters</i> , 2016 , 16, 7389-73	93 11.5	18
72	Investigating membrane nanoporation induced by bipolar pulsed electric fields via second harmonic generation. <i>Applied Physics Letters</i> , 2016 , 109, 113701	3.4	7
71	Photocleavage of Covalently Immobilized Amphiphilic Block Copolymer: From Bilayer to Monolayer. <i>Macromolecules</i> , 2016 , 49, 5773-5781	5.5	8
70	Label-free, single molecule resonant cavity detection: a double-blind experimental study. <i>Sensors</i> , 2015 , 15, 6324-41	3.8	3
69	Temperature sensor based on a hybrid ITO-silica resonant cavity. <i>Optics Express</i> , 2015 , 23, 1930-7	3.3	13
68	Real-time detection of lipid bilayer assembly and detergent-initiated solubilization using optical cavities. <i>Applied Physics Letters</i> , 2015 , 106, 071103	3.4	3
67	Portable polarimetric fiber stress sensor system for visco-elastic and biomimetic material analysis. <i>Applied Physics Letters</i> , 2015 , 106, 191105	3.4	4
66	An Integrated Photonic Gas Sensor Enhanced by Optimized Fano Effects in Coupled Microring Resonators With an Athermal Waveguide. <i>Journal of Lightwave Technology</i> , 2015 , 33, 4521-4530	4	13
65	Label free detection of 5Thydroxymethylcytosine within CpG islands using optical sensors. <i>Biosensors and Bioelectronics</i> , 2015 , 65, 198-203	11.8	30
64	High frequency ultrasound detection with ultra-high-Q silica microspheres 2015,		1
63	Photocleavage of Poly(methyl acrylate) with Centrally Located o-Nitrobenzyl Moiety: Influence of Environment on Kinetics. <i>Macromolecules</i> , 2015 , 48, 8746-8751	5.5	16
62	On-Chip Biological and Chemical Sensing With Reversed Fano Lineshape Enabled by Embedded Microring Resonators. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2014 , 20, 35-44	3.8	11
61	Spatiotemporal Fluorescent Detection Measurements Using Embedded Waveguide Sensors. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2014 , 20, 166-172	3.8	
60	Optimizing the Signal to Noise Ratio of Microcavity Sensors. <i>IEEE Photonics Technology Letters</i> , 2014 , 26, 2023-2026	2.2	8
59	Titanium-enhanced Raman microcavity laser. <i>Optics Letters</i> , 2014 , 39, 1354-7	3	17
58	Optothermal transport behavior in whispering gallery mode optical cavities. <i>Applied Physics Letters</i> , 2014 , 105, 051111	3.4	10
57	Optical detection of CO and CO2 temperature dependent desorption from carbon nanotube clusters. <i>Nanotechnology</i> , 2014 , 25, 395201	3.4	5

56	Hybrid integrated label-free chemical and biological sensors. Sensors, 2014, 14, 5890-928	3.8	43
55	Photoelastic ultrasound detection using ultra-high-Q silica optical resonators. <i>Optics Express</i> , 2014 , 22, 28169-79	3.3	16
54	Ultraviolet Sensor Based on a Silica Optical Microresonator. <i>Materials Research Society Symposia Proceedings</i> , 2014 , 1698, 1		
53	Bioconjugation Strategies for Label-Free Optical Microcavity Sensors. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2014 , 20, 121-133	3.8	19
52	Gold nanorod plasmonic upconversion microlaser. <i>Nano Letters</i> , 2013 , 13, 5827-31	11.5	32
51	Hybrid microcavity humidity sensor. <i>Applied Physics Letters</i> , 2013 , 102, 241101	3.4	74
50	Ultraviolet light detection using an optical microcavity. Optics Letters, 2013, 38, 3422-5	3	10
49	Optimal design of suspended silica on-chip splitter. <i>Optics Express</i> , 2013 , 21, 7748-57	3.3	2
48	Power enhancement and phase regimes in embedded microring resonators in analogy with electromagnetically induced transparency. <i>Optics Express</i> , 2013 , 21, 20179-86	3.3	22
47	Silica microtoroid resonator sensor with monolithically integrated waveguides. <i>Optics Express</i> , 2013 , 21, 23592-603	3.3	36
46	Nanowatt threshold, alumina sensitized neodymium laser integrated on silicon. <i>Optics Express</i> , 2013 , 21, 27238-45	3.3	10
45	Power enhancement and phase regimes in embedded microring resonators in analogy with electromagnetically induced transparency: erratum. <i>Optics Express</i> , 2013 , 21, 28414	3.3	
44	Towards more accurate microcavity sensors: maximum likelihood estimation applied to a combination of quality factor and wavelength shifts. <i>Optics Express</i> , 2013 , 21, 22817-28	3.3	6
43	Monitoring DNA hybridization using optical microcavities. <i>Optics Letters</i> , 2013 , 38, 4690-3	3	16
42	Heterodyned toroidal microlaser sensor. <i>Applied Physics Letters</i> , 2013 , 103, 123302	3.4	18
41	Blue upconversion laser based on thulium-doped silica microcavity. <i>Optics Letters</i> , 2013 , 38, 4346-9	3	26
40	Selective patterning of Si-based biosensor surfaces using isotropic silicon etchants. <i>Journal of Colloid and Interface Science</i> , 2012 , 369, 477-81	9.3	8
39	Photobleaching of Cy5 Conjugated Lipid Bilayers Determined With Optical Microresonators. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2012 , 18, 1160-1165	3.8	8

38	Thermo-optic coefficient of polyisobutylene ultrathin films measured with integrated photonic devices. <i>Langmuir</i> , 2012 , 28, 849-54	4	5
37	Fabrication of silica ultra high quality factor microresonators. <i>Journal of Visualized Experiments</i> , 2012 ,	1.6	9
36	Mass transport effects in suspended waveguide biosensors integrated in microfluidic channels. <i>Sensors</i> , 2012 , 12, 14327-43	3.8	7
35	Cascaded Raman microlaser in air and buffer. <i>Optics Letters</i> , 2012 , 37, 4068-70	3	24
34	Tailoring the behavior of optical microcavities with high refractive index sol-gel coatings. <i>Optics Letters</i> , 2012 , 37, 2844-6	3	7
33	Simultaneous measurement of quality factor and wavelength shift by phase shift microcavity ring down spectroscopy. <i>Optics Express</i> , 2012 , 20, 9090-8	3.3	33
32	Serpentine low loss trapezoidal silica waveguides on silicon. <i>Optics Express</i> , 2012 , 20, 22298-307	3.3	5
31	Leveraging bimodal kinetics to improve detection specificity. <i>Optics Letters</i> , 2012 , 37, 1643-5	3	12
30	Characterization of thermo-optic coefficient and material loss of high refractive index silica sol-gel films in the visible and near-IR. <i>Optical Materials Express</i> , 2012 , 2, 671	2.6	20
29	Optical microcavities with a thiol-functionalized gold nanoparticle polymer thin film coating. <i>Applied Physics Letters</i> , 2012 , 100, 013305	3.4	10
28	Improving the performance of label-free optical biosensors 2011,		1
27	Recycling microcavity optical biosensors. <i>Optics Letters</i> , 2011 , 36, 1092-4	3	19
26	Studying polymer thin films with hybrid optical microcavities. <i>Optics Letters</i> , 2011 , 36, 2152-4	3	21
25	Suspended bridge-like silica 2½ beam splitter on silicon. <i>Optics Letters</i> , 2011 , 36, 3012-4	3	8
24	Low-loss silica-on-silicon waveguides. <i>Optics Letters</i> , 2011 , 36, 3729-31	3	17
23	Improving the specificity and stability of label-free optical biosensors 2011,		1
22	Determination of binding kinetics using whispering gallery mode microcavities. <i>Applied Physics Letters</i> , 2011 , 99, 103703-1037033	3.4	33
21	Excitation of Cy5 in self-assembled lipid bilayers using optical microresonators. <i>Applied Physics Letters</i> , 2011 , 98, 143703	3.4	19

20	Bioconjugation strategies for microtoroidal optical resonators. Sensors, 2010, 10, 9317-36	3.8	75
19	Ultimate quality factor of silica microtoroid resonant cavities. <i>Applied Physics Letters</i> , 2010 , 96, 153304	3.4	37
18	Hybrid silica-polymer ultra-high-Q microresonators. <i>Optics Letters</i> , 2010 , 35, 459-61	3	30
17	Label-free biological and chemical sensors. <i>Nanoscale</i> , 2010 , 2, 1544-59	7.7	285
16	Optical devices for label-free detection 2010 ,		1
15	Thermal nonlinear effects in hybrid optical microresonators. <i>Applied Physics Letters</i> , 2010 , 97, 223306	3.4	26
14	Single Molecule Detection Using Optical Microcavities. Springer Series in Optical Sciences, 2010 , 253-273	8 0.5	4
13	Ultra-low-threshold Er:Yb sol-gel microlaser on silicon. <i>Optics Express</i> , 2009 , 17, 23265-71	3.3	44
12	Characterization of high-Q optical microcavities using confocal microscopy. <i>Optics Letters</i> , 2008 , 33, 293	313-3	1
11	Label-free detection of cytokines using optical microcavities 2008,		1
10	Soft lithographic fabrication of high Q polymer microcavity arrays. <i>Nano Letters</i> , 2007 , 7, 1823-6	11.5	52
9	Label-free, single-molecule detection with optical microcavities. <i>Science</i> , 2007 , 317, 783-7	33.3	847
8	Soft Lithographic Fabrication of Microresonators. LEOS Summer Topical Meeting, 2007,		1
7	Chemical and biological detectors using ultrahigh-Q microresonators 2006 , 6376, 41		1
6	Heavy water detection using ultra-high-Q microcavities. <i>Optics Letters</i> , 2006 , 31, 1896-8	3	195
5	Ultra-high-Q microcavity operation in H2O and D2O. Applied Physics Letters, 2005, 87, 151118	3.4	64
4	Electrical thermo-optic tuning of ultrahigh-Q microtoroid resonators. <i>Applied Physics Letters</i> , 2004 , 85, 5439-5441	3.4	88
3	Replica-molded high-Q polymer microresonators. <i>Optics Letters</i> , 2004 , 29, 533-5	3	40

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