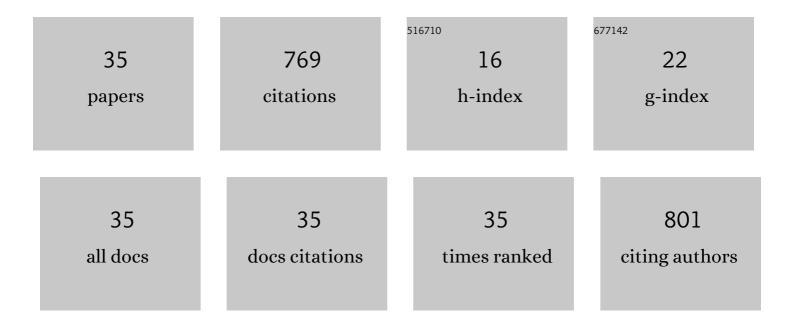
## Alireza Taghizadeh

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Uniaxial strain tuning of Raman spectra of a <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"&gt; <mml:msub> <mml:mrow> <mml:mi> ReS </mml:mi> monolayer. Physical Review B, 2022, 105, .</mml:mrow></mml:msub></mml:math 	m <b>₿œ</b> ₩> <m< td=""><td>וח<b>ז:</b>mn&gt;2</td></m<>	וח <b>ז:</b> mn>2
2	Two-Dimensional Materials with Giant Optical Nonlinearities near the Theoretical Upper Limit. ACS Nano, 2021, 15, 7155-7167.	14.6	29
3	Electrical tuning of optically active interlayer excitons in bilayer MoS2. Nature Nanotechnology, 2021, 16, 888-893.	31.5	60
4	Recent progress of the Computational 2D Materials Database (C2DB). 2D Materials, 2021, 8, 044002.	4.4	218
5	Excitonic two-photon absorption in monolayer transition metal dichalcogenides: Impact of screening and trigonal warping. Physical Review B, 2021, 104, .	3.2	0
6	Nonlinear excitonic spin Hall effect in monolayer transition metal dichalcogenides. 2D Materials, 2020, 7, 015003.	4.4	4
7	A library of ab initio Raman spectra for automated identification of 2D materials. Nature Communications, 2020, 11, 3011.	12.8	43
8	Nonlinear optical selection rules of excitons in monolayer transition metal dichalcogenides. Physical Review B, 2019, 99, .	3.2	33
9	Plasmons in ultra-thin gold slabs with quantum spill-out: Fourier modal method, perturbative approach, and analytical model. Optics Express, 2019, 27, 36941.	3.4	6
10	Silicon-on-chip laser based on bound states in the continuum. , 2018, , .		0
11	Nonlinear optical response of doped monolayer and bilayer graphene: Length gauge tight-binding model. Physical Review B, 2018, 98, .	3.2	18
12	Gauge invariance of excitonic linear and nonlinear optical response. Physical Review B, 2018, 97, .	3.2	25
13	Dynamical dispersion engineering in coupled vertical cavities employing a high-contrast grating. Scientific Reports, 2017, 7, 2123.	3.3	5
14	All-Si photodetector for telecommunication wavelength based on subwavelength grating structure and critical coupling. AIP Advances, 2017, 7, 095019.	1.3	4
15	Quasi bound states in the continuum with few unit cells of photonic crystal slab. Applied Physics Letters, 2017, 111, .	3.3	84
16	Linear and nonlinear optical response of crystals using length and velocity gauges: Effect of basis truncation. Physical Review B, 2017, 96, .	3.2	46
17	Reciprocal-space engineering of quasi-bound states in the continuum in photonic crystal slabs for high-Q microcavities. , 2017, , .		0

18 Hybrid Si-on-chip lasers with nano structures. , 2017, , .

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#	Article	IF	CITATIONS
19	Quality factor enhancement in photonic crystal slabs by manipulation of the ring of exceptional points. , 2017, , .		0
20	Compact dielectric cavities based on frozen bound states in the continuum. , 2017, , .		0
21	Efficient quality-eactor estimation of a vertical cavity employing a high-contrast grating. , 2017, , .		0
22	Control of exceptional points in photonic crystal slabs. Optics Letters, 2017, 42, 2866.	3.3	17
23	Ultrabroadband hybrid III-V/SOI grating reflector for on-chip lasers. , 2016, , .		0
24	Hybrid III-V/SOI resonant cavity photodetector. , 2016, , .		0
25	Hybrid grating reflectors: Origin of ultrabroad stopband. Applied Physics Letters, 2016, 108, 141108.	3.3	17
26	Numerical Investigation of Vertical Cavity Lasers With High-Contrast Gratings Using the Fourier Modal Method. Journal of Lightwave Technology, 2016, 34, 4240-4251.	4.6	10
27	Hybrid Ill–V/SOI resonant cavity enhanced photodetector. Optics Express, 2016, 24, 16512.	3.4	17
28	Toward 100 GHz direct modulation rate of antenna coupled nanoLED. , 2016, , .		3
29	Hybrid III-V on Si grating as a broadband reflector and a high-Q resonator. , 2016, , .		0
30	Hybrid vertical avity laser with lateral emission into a silicon waveguide. Laser and Photonics Reviews, 2015, 9, L11.	8.7	46
31	Vertical-cavity in-plane heterostructures: Physics and applications. Applied Physics Letters, 2015, 107, 181107.	3.3	22
32	Ultracompact resonator with high quality-factor based on a hybrid grating structure. Optics Express, 2015, 23, 14913.	3.4	26
33	Effect of In-plane Mirror Dispersion on Vertical Cavities Based on High-Contrast Grating Mirrors. , 2015, , .		2
34	Hybrid grating reflector with high reflectivity and broad bandwidth. Optics Express, 2014, 22, 21175.	3.4	26
35	Comparison of different numerical methods for quality factor calculation of nano and micro photonic cavities. , 2014, , .		3