

# Timur O Shegai

## 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.

61  
papers

4,996  
citations

34  
h-index

67  
g-index

67  
ext. papers

6,457  
ext. citations

10.7  
avg, IF

5.87  
L-index

#	Paper	IF	Citations
61	Ultrastrong Coupling of a Single Molecule to a Plasmonic Nanocavity: A First-Principles Study.. <i>ACS Photonics</i> , <b>2022</b> , 9, 1065-1077	6.3	1
60	Abundance of cavity-free polaritonic states in resonant materials and nanostructures. <i>Journal of Chemical Physics</i> , <b>2021</b> , 154, 024701	3.9	13
59	Enhancing Vibrational Light-Matter Coupling Strength beyond the Molecular Concentration Limit Using Plasmonic Arrays. <i>Nano Letters</i> , <b>2021</b> , 21, 1320-1326	11.5	6
58	Giant optical anisotropy in transition metal dichalcogenides for next-generation photonics. <i>Nature Communications</i> , <b>2021</b> , 12, 854	17.4	41
57	Tunable self-assembled Casimir microcavities and polaritons. <i>Nature</i> , <b>2021</b> , 597, 214-219	50.4	12
56	Ultrastrong coupling between nanoparticle plasmons and cavity photons at ambient conditions. <i>Nature Communications</i> , <b>2020</b> , 11, 2715	17.4	27
55	Room-Temperature Lasing from Mie-Resonant Nonplasmonic Nanoparticles. <i>ACS Nano</i> , <b>2020</b> , 14, 8149-8156	16.6	50
54	Broadband optical properties of monolayer and bulk MoS <sub>2</sub> . <i>Npj 2D Materials and Applications</i> , <b>2020</b> , 4,	8.8	35
53	Strong coupling as an interplay of quantum emitter hybridization with plasmonic dark and bright modes. <i>Physical Review Research</i> , <b>2020</b> , 2,	3.9	5
52	Optical material anisotropy in high-index transition metal dichalcogenide Mie nanoresonators. <i>Optica</i> , <b>2020</b> , 7, 680	8.6	11
51	Circular dichroism mode splitting and bounds to its enhancement with cavity-plasmon-polaritons. <i>Nanophotonics</i> , <b>2020</b> , 9, 283-293	6.3	10
50	Electrical Control of Hybrid Monolayer Tungsten Disulfide-Plasmonic Nanoantenna Light-Matter States at Cryogenic and Room Temperatures. <i>ACS Nano</i> , <b>2020</b> , 14, 1196-1206	16.7	22
49	Photophysical properties of halide perovskite CsPb(Br <sub>1-x</sub> I <sub>x</sub> ) <sub>3</sub> thin films and nanowires. <i>Journal of Luminescence</i> , <b>2020</b> , 220, 116985	3.8	5
48	Visualizing Strong Light-matter Interactions Using Fast Electrons. <i>Microscopy and Microanalysis</i> , <b>2020</b> , 26, 3182-3184	0.5	
47	Transition metal dichalcogenide metamaterials with atomic precision. <i>Nature Communications</i> , <b>2020</b> , 11, 4604	17.4	29
46	Present and Future of Surface-Enhanced Raman Scattering. <i>ACS Nano</i> , <b>2020</b> , 14, 28-117	16.7	1000
45	Correlative Dark-Field and Photoluminescence Spectroscopy of Individual Plasmon-Molecule Hybrid Nanostructures in a Strong Coupling Regime. <i>ACS Photonics</i> , <b>2019</b> , 6, 2570-2576	6.3	20

44	Transition metal dichalcogenide nanodisks as high-index dielectric Mie nanoresonators. <i>Nature Nanotechnology</i> , <b>2019</b> , 14, 679-683	28.7	112
43	Towards Plasmon-Exciton Hybridization at the Nanoscale using STEM EELS. <i>Microscopy and Microanalysis</i> , <b>2019</b> , 25, 624-625	0.5	
42	Strong plasmon-molecule coupling at the nanoscale revealed by first-principles modeling. <i>Nature Communications</i> , <b>2019</b> , 10, 3336	17.4	34
41	Visualizing Spatial Variations of Plasmon-Exciton Polaritons at the Nanoscale Using Electron Microscopy. <i>Nano Letters</i> , <b>2019</b> , 19, 8171-8181	11.5	43
40	Self-Hybridized Exciton-Polaritons in Multilayers of Transition Metal Dichalcogenides for Efficient Light Absorption. <i>ACS Photonics</i> , <b>2019</b> , 6, 139-147	6.3	37
39	Collective Strong Light-Matter Coupling in Hierarchical Microcavity-Plasmon-Exciton Systems. <i>Nano Letters</i> , <b>2019</b> , 19, 189-196	11.5	62
38	Observation of Tunable Charged Exciton Polaritons in Hybrid Monolayer WS-Plasmonic Nanoantenna System. <i>Nano Letters</i> , <b>2018</b> , 18, 1777-1785	11.5	131
37	Novel Nanostructures and Materials for Strong Light-Matter Interactions. <i>ACS Photonics</i> , <b>2018</b> , 5, 24-42	6.3	247
36	Quantum description and emergence of nonlinearities in strongly coupled single-emitter nanoantenna systems. <i>Physical Review B</i> , <b>2018</b> , 98,	3.3	23
35	Tunable Hybrid Fano Resonances in Halide Perovskite Nanoparticles. <i>Nano Letters</i> , <b>2018</b> , 18, 5522-5529	11.5	63
34	Strong Light-Matter Coupling between Plasmons in Individual Gold Bi-pyramids and Excitons in Mono- and Multilayer WSe. <i>Nano Letters</i> , <b>2018</b> , 18, 5938-5945	11.5	90
33	Suppression of photo-oxidation of organic chromophores by strong coupling to plasmonic nanoantennas. <i>Science Advances</i> , <b>2018</b> , 4, eaas9552	14.3	141
32	Molecule signatures in photoluminescence spectra of transition metal dichalcogenides. <i>Physical Review Materials</i> , <b>2018</b> , 2,	3.2	4
31	Strong Plasmon-Exciton Coupling with Directional Absorption Features in Optically Thin Hybrid Nanohole Metasurfaces. <i>ACS Photonics</i> , <b>2018</b> , 5, 4046-4055	6.3	24
30	Observation of Mode Splitting in Photoluminescence of Individual Plasmonic Nanoparticles Strongly Coupled to Molecular Excitons. <i>Nano Letters</i> , <b>2017</b> , 17, 551-558	11.5	127
29	Coherent perfect absorbers: linear control of light with light. <i>Nature Reviews Materials</i> , <b>2017</b> , 2,	73.3	163
28	Hybrid dielectric waveguide spectroscopy of individual plasmonic nanoparticles. <i>AIP Advances</i> , <b>2017</b> , 7, 075207	1.5	7
27	Role of material loss and mode volume of plasmonic nanocavities for strong plasmon-exciton interactions. <i>Optics Express</i> , <b>2016</b> , 24, 20373-81	3.3	38

26	Evaluating Conditions for Strong Coupling between Nanoparticle Plasmons and Organic Dyes Using Scattering and Absorption Spectroscopy. <i>Journal of Physical Chemistry C</i> , <b>2016</b> , 120, 20588-20596	3.8	47
25	Realizing Strong Light-Matter Interactions between Single-Nanoparticle Plasmons and Molecular Excitons at Ambient Conditions. <i>Physical Review Letters</i> , <b>2015</b> , 114, 157401	7.4	322
24	Dimer-on-mirror SERS substrates with attogram sensitivity fabricated by colloidal lithography. <i>Nanoscale</i> , <b>2015</b> , 7, 9405-10	7.7	89
23	Optical magnetism and plasmonic Fano resonances in metal-insulator-metal oligomers. <i>Nano Letters</i> , <b>2015</b> , 15, 1952-8	11.5	79
22	Plasmon-Exciton Interactions in a Core-Shell Geometry: From Enhanced Absorption to Strong Coupling. <i>ACS Photonics</i> , <b>2014</b> , 1, 454-463	6.3	176
21	Directional Nanoplasmonic Antennas for Self-Referenced Refractometric Molecular Analysis. <i>Journal of Physical Chemistry C</i> , <b>2014</b> , 118, 21075-21080	3.8	20
20	Quasi-isotropic surface plasmon polariton generation through near-field coupling to a penrose pattern of silver nanoparticles. <i>ACS Nano</i> , <b>2014</b> , 8, 9286-94	16.7	7
19	Approaching the strong coupling limit in single plasmonic nanorods interacting with J-aggregates. <i>Scientific Reports</i> , <b>2013</b> , 3, 3074	4.9	181
18	Directional scattering and hydrogen sensing by bimetallic Pd-Au nanoantennas. <i>Nano Letters</i> , <b>2012</b> , 12, 2464-9	11.5	125
17	Simulating light scattering from supported plasmonic nanowires. <i>Optics Express</i> , <b>2012</b> , 20, 10816-26	3.3	23
16	A bimetallic nanoantenna for directional colour routing. <i>Nature Communications</i> , <b>2011</b> , 2, 481	17.4	259
15	Mode-specific directional emission from hybridized particle-on-a-film plasmons. <i>Optics Express</i> , <b>2011</b> , 19, 12856-64	3.3	10
14	Unidirectional broadband light emission from supported plasmonic nanowires. <i>Nano Letters</i> , <b>2011</b> , 11, 706-11	11.5	186
13	Hydride formation in single palladium and magnesium nanoparticles studied by nanoplasmonic dark-field scattering spectroscopy. <i>Advanced Materials</i> , <b>2011</b> , 23, 4409-14	24	64
12	Angular distribution of surface-enhanced Raman scattering from individual au nanoparticle aggregates. <i>ACS Nano</i> , <b>2011</b> , 5, 2036-41	16.7	73
11	Coloring fluorescence emission with silver nanowires. <i>Applied Physics Letters</i> , <b>2010</b> , 96, 103114	3.4	46
10	Plasmonic control of the shape of the Raman spectrum of a single molecule in a silver nanoparticle dimer. <i>ACS Nano</i> , <b>2009</b> , 3, 1988-94	16.7	106
9	Raman spectroelectrochemistry of molecules within individual electromagnetic hot spots. <i>Journal of the American Chemical Society</i> , <b>2009</b> , 131, 14390-8	16.4	79

8	Multiple-particle nanoantennas for enormous enhancement and polarization control of light emission. <i>ACS Nano</i> , <b>2009</b> , 3, 637-42	16.7	121
7	Managing light polarization via plasmon-molecule interactions within an asymmetric metal nanoparticle trimer. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2008</b> , 105, 16448-53	11.5	203
6	Probing the Raman scattering tensors of individual molecules. <i>Journal of Physical Chemistry B</i> , <b>2006</b> , 110, 2459-61	3.4	56
5	Two-state analysis of single-molecule Raman spectra of crystal violet. <i>Chemical Physics</i> , <b>2005</b> , 318, 44-49	2.3	25
4	Deuterium Solid-State NMR Study of the Dynamic Behavior of Deuterons and Water Molecules in Solid D <sub>3</sub> PW12O <sub>40</sub> . <i>Journal of Physical Chemistry B</i> , <b>2003</b> , 107, 12438-12443	3.4	12
3	Dynamics of n-Hexane Inside Silicalite, As Studied by <sup>2</sup> H NMR. <i>Journal of Physical Chemistry B</i> , <b>2003</b> , 107, 7095-7101	3.4	21
2	Dynamics of Isobutane inside Zeolite ZSM-5. A Study with Deuterium Solid-State NMR. <i>Journal of Physical Chemistry B</i> , <b>2002</b> , 106, 10114-10120	3.4	25
1	Giant optical anisotropy in transition metal dichalcogenides for next-generation photonics		2