

Timur O Shegai

List of Publications by Citations

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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	Present and Future of Surface-Enhanced Raman Scattering. <i>ACS Nano</i> , 2020 , 14, 28-117	16.7	1000
60	Realizing Strong Light-Matter Interactions between Single-Nanoparticle Plasmons and Molecular Excitons at Ambient Conditions. <i>Physical Review Letters</i> , 2015 , 114, 157401	7.4	322
59	A bimetallic nanoantenna for directional colour routing. <i>Nature Communications</i> , 2011 , 2, 481	17.4	259
58	Novel Nanostructures and Materials for Strong Light-Matter Interactions. <i>ACS Photonics</i> , 2018 , 5, 24-42	6.3	247
57	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> , 2008 , 105, 16448-53	11.5	203
56	Unidirectional broadband light emission from supported plasmonic nanowires. <i>Nano Letters</i> , 2011 , 11, 706-11	11.5	186
55	Approaching the strong coupling limit in single plasmonic nanorods interacting with J-aggregates. <i>Scientific Reports</i> , 2013 , 3, 3074	4.9	181
54	Plasmon-Exciton Interactions in a Core-Shell Geometry: From Enhanced Absorption to Strong Coupling. <i>ACS Photonics</i> , 2014 , 1, 454-463	6.3	176
53	Coherent perfect absorbers: linear control of light with light. <i>Nature Reviews Materials</i> , 2017 , 2,	73.3	163
52	Suppression of photo-oxidation of organic chromophores by strong coupling to plasmonic nanoantennas. <i>Science Advances</i> , 2018 , 4, eaas9552	14.3	141
51	Observation of Tunable Charged Exciton Polaritons in Hybrid Monolayer WS ₂ -Plasmonic Nanoantenna System. <i>Nano Letters</i> , 2018 , 18, 1777-1785	11.5	131
50	Observation of Mode Splitting in Photoluminescence of Individual Plasmonic Nanoparticles Strongly Coupled to Molecular Excitons. <i>Nano Letters</i> , 2017 , 17, 551-558	11.5	127
49	Directional scattering and hydrogen sensing by bimetallic Pd-Au nanoantennas. <i>Nano Letters</i> , 2012 , 12, 2464-9	11.5	125
48	Multiple-particle nanoantennas for enormous enhancement and polarization control of light emission. <i>ACS Nano</i> , 2009 , 3, 637-42	16.7	121
47	Transition metal dichalcogenide nanodisks as high-index dielectric Mie nanoresonators. <i>Nature Nanotechnology</i> , 2019 , 14, 679-683	28.7	112
46	Plasmonic control of the shape of the Raman spectrum of a single molecule in a silver nanoparticle dimer. <i>ACS Nano</i> , 2009 , 3, 1988-94	16.7	106
45	Strong Light-Matter Coupling between Plasmons in Individual Gold Bi-pyramids and Excitons in Mono- and Multilayer WSe ₂ . <i>Nano Letters</i> , 2018 , 18, 5938-5945	11.5	90

44	Dimer-on-mirror SERS substrates with attogram sensitivity fabricated by colloidal lithography. <i>Nanoscale</i> , 2015 , 7, 9405-10	7.7	89
43	Optical magnetism and plasmonic Fano resonances in metal-insulator-metal oligomers. <i>Nano Letters</i> , 2015 , 15, 1952-8	11.5	79
42	Raman spectroelectrochemistry of molecules within individual electromagnetic hot spots. <i>Journal of the American Chemical Society</i> , 2009 , 131, 14390-8	16.4	79
41	Angular distribution of surface-enhanced Raman scattering from individual au nanoparticle aggregates. <i>ACS Nano</i> , 2011 , 5, 2036-41	16.7	73
40	Hydride formation in single palladium and magnesium nanoparticles studied by nanoplasmonic dark-field scattering spectroscopy. <i>Advanced Materials</i> , 2011 , 23, 4409-14	24	64
39	Tunable Hybrid Fano Resonances in Halide Perovskite Nanoparticles. <i>Nano Letters</i> , 2018 , 18, 5522-5529	11.5	63
38	Collective Strong Light-Matter Coupling in Hierarchical Microcavity-Plasmon-Exciton Systems. <i>Nano Letters</i> , 2019 , 19, 189-196	11.5	62
37	Probing the Raman scattering tensors of individual molecules. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 2459-61	3.4	56
36	Room-Temperature Lasing from Mie-Resonant Nonplasmonic Nanoparticles. <i>ACS Nano</i> , 2020 , 14, 8149-8156	16.6	50
35	Evaluating Conditions for Strong Coupling between Nanoparticle Plasmons and Organic Dyes Using Scattering and Absorption Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 20588-20596	3.8	47
34	Coloring fluorescence emission with silver nanowires. <i>Applied Physics Letters</i> , 2010 , 96, 103114	3.4	46
33	Visualizing Spatial Variations of Plasmon-Exciton Polaritons at the Nanoscale Using Electron Microscopy. <i>Nano Letters</i> , 2019 , 19, 8171-8181	11.5	43
32	Giant optical anisotropy in transition metal dichalcogenides for next-generation photonics. <i>Nature Communications</i> , 2021 , 12, 854	17.4	41
31	Role of material loss and mode volume of plasmonic nanocavities for strong plasmon-exciton interactions. <i>Optics Express</i> , 2016 , 24, 20373-81	3.3	38
30	Self-Hybridized Exciton-Polaritons in Multilayers of Transition Metal Dichalcogenides for Efficient Light Absorption. <i>ACS Photonics</i> , 2019 , 6, 139-147	6.3	37
29	Broadband optical properties of monolayer and bulk MoS ₂ . <i>Npj 2D Materials and Applications</i> , 2020 , 4,	8.8	35
28	Strong plasmon-molecule coupling at the nanoscale revealed by first-principles modeling. <i>Nature Communications</i> , 2019 , 10, 3336	17.4	34
27	Transition metal dichalcogenide metamaterials with atomic precision. <i>Nature Communications</i> , 2020 , 11, 4604	17.4	29

26	Ultrastrong coupling between nanoparticle plasmons and cavity photons at ambient conditions. <i>Nature Communications</i> , 2020 , 11, 2715	17.4	27
25	Two-state analysis of single-molecule Raman spectra of crystal violet. <i>Chemical Physics</i> , 2005 , 318, 44-49	2.3	25
24	Dynamics of Isobutane inside Zeolite ZSM-5. A Study with Deuterium Solid-State NMR. <i>Journal of Physical Chemistry B</i> , 2002 , 106, 10114-10120	3.4	25
23	Strong Plasmon-Exciton Coupling with Directional Absorption Features in Optically Thin Hybrid Nanohole Metasurfaces. <i>ACS Photonics</i> , 2018 , 5, 4046-4055	6.3	24
22	Quantum description and emergence of nonlinearities in strongly coupled single-emitter nanoantenna systems. <i>Physical Review B</i> , 2018 , 98,	3.3	23
21	Simulating light scattering from supported plasmonic nanowires. <i>Optics Express</i> , 2012 , 20, 10816-26	3.3	23
20	Electrical Control of Hybrid Monolayer Tungsten Disulfide-Plasmonic Nanoantenna Light-Matter States at Cryogenic and Room Temperatures. <i>ACS Nano</i> , 2020 , 14, 1196-1206	16.7	22
19	Dynamics of n-Hexane Inside Silicalite, As Studied by ² H NMR. <i>Journal of Physical Chemistry B</i> , 2003 , 107, 7095-7101	3.4	21
18	Correlative Dark-Field and Photoluminescence Spectroscopy of Individual Plasmon-Molecule Hybrid Nanostructures in a Strong Coupling Regime. <i>ACS Photonics</i> , 2019 , 6, 2570-2576	6.3	20
17	Directional Nanoplasmonic Antennas for Self-Referenced Refractometric Molecular Analysis. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 21075-21080	3.8	20
16	Abundance of cavity-free polaritonic states in resonant materials and nanostructures. <i>Journal of Chemical Physics</i> , 2021 , 154, 024701	3.9	13
15	Deuterium Solid-State NMR Study of the Dynamic Behavior of Deuterons and Water Molecules in Solid D ₃ PW12O ₄₀ . <i>Journal of Physical Chemistry B</i> , 2003 , 107, 12438-12443	3.4	12
14	Tunable self-assembled Casimir microcavities and polaritons. <i>Nature</i> , 2021 , 597, 214-219	50.4	12
13	Optical material anisotropy in high-index transition metal dichalcogenide Mie nanoresonators. <i>Optica</i> , 2020 , 7, 680	8.6	11
12	Mode-specific directional emission from hybridized particle-on-a-film plasmons. <i>Optics Express</i> , 2011 , 19, 12856-64	3.3	10
11	Circular dichroism mode splitting and bounds to its enhancement with cavity-plasmon-polaritons. <i>Nanophotonics</i> , 2020 , 9, 283-293	6.3	10
10	Quasi-isotropic surface plasmon polariton generation through near-field coupling to a penrose pattern of silver nanoparticles. <i>ACS Nano</i> , 2014 , 8, 9286-94	16.7	7
9	Hybrid dielectric waveguide spectroscopy of individual plasmonic nanoparticles. <i>AIP Advances</i> , 2017 , 7, 075207	1.5	7

8	Enhancing Vibrational Light-Matter Coupling Strength beyond the Molecular Concentration Limit Using Plasmonic Arrays. <i>Nano Letters</i> , 2021 , 21, 1320-1326	11.5	6
7	Strong coupling as an interplay of quantum emitter hybridization with plasmonic dark and bright modes. <i>Physical Review Research</i> , 2020 , 2,	3.9	5
6	Photophysical properties of halide perovskite CsPb(Br _{1-x} I _x) ₃ thin films and nanowires. <i>Journal of Luminescence</i> , 2020 , 220, 116985	3.8	5
5	Molecule signatures in photoluminescence spectra of transition metal dichalcogenides. <i>Physical Review Materials</i> , 2018 , 2,	3.2	4
4	Giant optical anisotropy in transition metal dichalcogenides for next-generation photonics		2
3	Ultrastrong Coupling of a Single Molecule to a Plasmonic Nanocavity: A First-Principles Study.. <i>ACS Photonics</i> , 2022 , 9, 1065-1077	6.3	1
2	Towards Plasmon-Exciton Hybridization at the Nanoscale using STEM EELS. <i>Microscopy and Microanalysis</i> , 2019 , 25, 624-625	0.5	
1	Visualizing Strong Light-matter Interactions Using Fast Electrons. <i>Microscopy and Microanalysis</i> , 2020 , 26, 3182-3184	0.5	