

Teng Qiu

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.

134
papers

3,224
citations

28
h-index

51
g-index

141
ext. papers

3,636
ext. citations

4.8
avg, IF

5.26
L-index

#	Paper	IF	Citations
134	Monitoring substrate-induced electron-phonon coupling at interfaces of 2D organic/inorganic van der Waals heterostructures with in situ Raman spectroscopy. <i>Applied Physics Letters</i> , 2022 , 120, 181602	3.4	1
133	Manipulating Hot-Electron Injection in Metal Oxide Heterojunction Array for Ultrasensitive Surface-Enhanced Raman Scattering. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 51618-51627	9.5	3
132	The origin of ultrasensitive SERS sensing beyond plasmonics. <i>Frontiers of Physics</i> , 2021 , 16, 1	3.7	17
131	Stability of the structure and redox state of ferricytochrome c in the desolvation process. <i>Vibrational Spectroscopy</i> , 2021 , 113, 103220	2.1	
130	Role of dispersion relation effect in topological surface-enhanced Raman scattering. <i>Cell Reports Physical Science</i> , 2021 , 2, 100488	6.1	3
129	Origin of layer-dependent SERS tunability in 2D transition metal dichalcogenides. <i>Nanoscale Horizons</i> , 2021 , 6, 186-191	10.8	9
128	Plasmon-exciton coupling dynamics and plasmonic lasing in a core-shell nanocavity. <i>Nanoscale</i> , 2021 , 13, 6780-6785	7.7	3
127	Flexible fabrication of new-type porous anodic alumina membranes with tunable geometric features by low-cost nanoimprint lithography. <i>Nanoscale Advances</i> , 2021 , 3, 2918-2923	5.1	2
126	Ultra-strong mode confinement at semishell metal/insulator/semiconductor interface for nanolaser. <i>Journal of Luminescence</i> , 2021 , 238, 118242	3.8	1
125	Hotspots on the Move: Active Molecular Enrichment by Hierarchically Structured Micromotors for Ultrasensitive SERS Sensing. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 28783-28791	9.5	20
124	Improving the performance of light-emitting diodes via plasmonic-based strategies. <i>Journal of Applied Physics</i> , 2020 , 127, 040901	2.5	17
123	Toward visible-light-assisted photocatalytic nitrogen fixation: A titanium metal organic framework with functionalized ligands. <i>Applied Catalysis B: Environmental</i> , 2020 , 267, 118686	21.8	69
122	Plasmonic metal carbide SERS chips. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 14523-14530	7.1	6
121	Flexible Surface-Enhanced Raman Scattering Chip: A Universal Platform for Real-Time Interfacial Molecular Analysis with Femtomolar Sensitivity. <i>ACS Applied Materials & Interfaces</i> , 2020 ,	9.5	17
120	Surface-Enhanced Raman Scattering Monitoring of Oxidation States in Defect-Engineered Two-Dimensional Transition Metal Dichalcogenides. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 7981-7987	6.4	8
119	Inkjet-printed paper-based semiconducting substrates for surface-enhanced Raman spectroscopy. <i>Nanotechnology</i> , 2020 , 31, 055502	3.4	20
118	Alloy Engineering in Few-Layer Manganese Phosphorus Trichalcogenides for Surface-Enhanced Raman Scattering. <i>Advanced Functional Materials</i> , 2020 , 30, 1910171	15.6	25

117	Ultrasonic exfoliated ReS nanosheets: fabrication and use as co-catalyst for enhancing photocatalytic efficiency of TiO nanoparticles under sunlight. <i>Nanotechnology</i> , 2019 , 30, 184001	3.4	16
116	Plasmon-coupled charge transfer in WO semiconductor nanoarrays: toward highly uniform silver-comparable SERS platforms. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 2611-2618	3.6	20
115	Planar transition metal oxides SERS chips: a general strategy. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 11134-11141	7.1	11
114	High SERS Sensitivity Enabled by Synergistically Enhanced Photoinduced Charge Transfer in Amorphous Nonstoichiometric Semiconducting Films. <i>Advanced Materials Interfaces</i> , 2019 , 6, 1901133	4.6	22
113	WO/Monolayer MoS Heterojunction-Enhanced Raman Scattering. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 4038-4044	6.4	32
112	Microdroplet-guided intercalation and deterministic delamination towards intelligent rolling origami. <i>Nature Communications</i> , 2019 , 10, 5019	17.4	15
111	Interaction between indium tin oxide nanoparticles and ferricytochrome c: Conformation, redox state, and adsorption scheme. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2019 , 213, 64-72	4.4	3
110	Multi-functional ratiometric fluorescent chemosensors of poly(N-isopropylacrylamide) containing rhodamine 6G and 1,8-naphthalimide moieties. <i>Polymer</i> , 2018 , 151, 117-124	3.9	10
109	The effect of imide substituents on the optical properties of perylene diimide derivatives. <i>Luminescence</i> , 2018 , 33, 1209-1216	2.5	1
108	Facile design of ultra-thin anodic aluminum oxide membranes for the fabrication of plasmonic nanoarrays. <i>Nanotechnology</i> , 2017 , 28, 105301	3.4	47
107	Controlled Patterning of Plasmonic Dimers by Using an Ultrathin Nanoporous Alumina Membrane as a Shadow Mask. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 36199-36205	9.5	39
106	Self-assembled bundled TiO nanowire arrays encapsulated with indium tin oxide for broadband absorption in plasmonic photocatalysis. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 27059-27064	3.6	3
105	Assembly of gold nanoparticles into aluminum nanobowl array. <i>Scientific Reports</i> , 2017 , 7, 2322	4.9	28
104	Efficiency at maximum power of thermochemical engines with near-independent particles. <i>Physical Review E</i> , 2016 , 93, 032125	2.4	5
103	Epitaxial Ultrathin Organic Crystals on Graphene for High-Efficiency Phototransistors. <i>Advanced Materials</i> , 2016 , 28, 5200-5	24	109
102	Exploring indium tin oxide capped titanium dioxide nanolace arrays for plasmonic photocatalysis. <i>RSC Advances</i> , 2016 , 6, 12611-12615	3.7	3
101	Controlled Assembly of Plasmonic Nanostructures Templated by Porous Anodic Alumina Membranes. <i>International Journal of Behavioral and Consultation Therapy</i> , 2016 , 249-274	0.6	1
100	Magneto-optical metamaterials with extraordinarily strong magneto-optical effect. <i>Applied Physics Letters</i> , 2016 , 108, 131104	3.4	23

99	Automatic molecular collection and detection by using fuel-powered microengines. <i>Nanoscale</i> , 2016 , 8, 9141-5	7.7	22
98	Rolled-Up Ag-SiO _x Hyperbolic Metamaterials for Surface-Enhanced Raman Scattering. <i>Plasmonics</i> , 2015 , 10, 949-954	2.4	11
97	Interaction between indium tin oxide nanoparticles and cytochrome c: A surface-enhanced Raman scattering and absorption spectroscopic study. <i>Journal of Applied Physics</i> , 2015 , 117, 245307	2.5	7
96	Aluminum plasmonic photocatalysis. <i>Scientific Reports</i> , 2015 , 5, 15288	4.9	47
95	Facile synthesis of gold-capped TiO ₂ nanocomposites for surface-enhanced Raman scattering. <i>Materials Chemistry and Physics</i> , 2015 , 153, 88-92	4.4	4
94	Plasmon-induced broadband fluorescence enhancement on Al-Ag bimetallic substrates. <i>Scientific Reports</i> , 2014 , 4, 6014	4.9	16
93	Performance analysis of a tunneling thermoelectric heat engine with nano-scaled quantum well. <i>Applied Physics A: Materials Science and Processing</i> , 2014 , 117, 1031-1039	2.6	5
92	A theoretical study on the performances of thermoelectric heat engine and refrigerator with two-dimensional electron reservoirs. <i>Journal of Applied Physics</i> , 2014 , 115, 244306	2.5	9
91	Graphene plasmon guided along a nanoribbon coupled with a nanoring. <i>Journal Physics D: Applied Physics</i> , 2014 , 47, 135106	3	30
90	Facile synthesis of gold coated copper(II) hydroxide pine-needle-like micro/nanostructures for surface-enhanced Raman scattering. <i>Applied Surface Science</i> , 2014 , 311, 666-671	6.7	7
89	Tunable surface-enhanced Raman scattering from high-density gold semishell arrays with controllable dimensions. <i>ChemPhysChem</i> , 2014 , 15, 337-43	3.2	3
88	Surface-enhanced Raman spectroscopy on transparent fume-etched ITO-glass surface. <i>Applied Surface Science</i> , 2014 , 309, 250-254	6.7	8
87	Tunable fluorescence from patterned silver nano-island arrays for sensitive sub-cell imaging. <i>Journal Physics D: Applied Physics</i> , 2013 , 46, 495302	3	7
86	Plasmons in graphene: Recent progress and applications. <i>Materials Science and Engineering Reports</i> , 2013 , 74, 351-376	30.9	262
85	One-Dimensional Nanostructures in Plasmonics 2013 , 455-471		
84	Surface and interference co-enhanced Raman scattering from indium tin oxide nanocap arrays. <i>Applied Surface Science</i> , 2013 , 280, 343-348	6.7	7
83	The impact of energy spectrum width in the energy selective electron low-temperature thermionic heat engine at maximum power. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2013 , 377, 1566-1570	2.3	24
82	Atomic layer deposition of platinum thin films on anodic aluminium oxide templates as surface-enhanced Raman scattering substrates. <i>Vacuum</i> , 2013 , 89, 257-260	3.7	11

81	Direct imprint of nanostructures in metals using porous anodic alumina stamps. <i>Nanotechnology</i> , 2013 , 24, 255303	3.4	9
80	Surface-enhanced Raman scattering from graphene covered gold nanocap arrays. <i>Journal of Applied Physics</i> , 2013 , 114, 183520	2.5	17
79	Low-Threshold Surface Plasmon Lasing using the Band Edge Mode in a Bi-Periodic Groove Array. <i>Chinese Physics Letters</i> , 2013 , 30, 087805	1.8	1
78	The magnetoelectric coupling in rhombohedral/tetragonal phases coexisted Bi _{0.84} Ba _{0.20} FeO ₃ . <i>Physica B: Condensed Matter</i> , 2012 , 407, 2243-2246	2.8	19
77	Surface-enhanced cellular fluorescence imaging. <i>Progress in Surface Science</i> , 2012 , 87, 23-45	6.6	25
76	Exploring Rolled-up Au/Ag Bimetallic Microtubes for Surface-Enhanced Raman Scattering Sensor. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 25504-25508	3.8	21
75	Fabrication of Si/Ag Wire-cap Nanostructures for metal-enhanced fluorescence. <i>Journal of Luminescence</i> , 2012 , 132, 2586-2589	3.8	1
74	Plasmonic nano-lasers. <i>Nano Energy</i> , 2012 , 1, 25-41	17.1	59
73	H mediated room temperature ferromagnetism in Zn _{0.98} Cu _{0.02} O. <i>Journal of Alloys and Compounds</i> , 2012 , 536, 184-188	5.7	6
72	Optofluidic detection for cellular phenotyping. <i>Lab on A Chip</i> , 2012 , 12, 3552-65	7.2	30
71	Interference effects on indium tin oxide enhanced Raman scattering. <i>Journal of Applied Physics</i> , 2012 , 111, 033110	2.5	8
70	Silver nanovoid arrays for surface-enhanced Raman scattering. <i>Langmuir</i> , 2012 , 28, 8799-803	4	20
69	Visibility of ghost imaging in a two-arm microscope imaging system. <i>Journal of Modern Optics</i> , 2012 , 59, 360-364	1.1	1
68	Evolution process from ghost diffraction to ghost imaging in a lensless imaging system. <i>Applied Optics</i> , 2011 , 50, 6098-102	0.2	7
67	Recent progress in patterned silicon nanowire arrays: fabrication, properties and applications. <i>Recent Patents on Nanotechnology</i> , 2011 , 5, 62-70	1.2	5
66	Light-emitting diodes enhanced by localized surface plasmon resonance. <i>Nanoscale Research Letters</i> , 2011 , 6, 199	5	129
65	Effect of interchain interaction on optical properties of poly(p-phenylene vinylene) derivative containing oxadiazole in backbone. <i>Journal of Applied Polymer Science</i> , 2011 , 122, 2583-2587	2.9	
64	Surface enhanced Raman scattering of aged graphene: Effects of annealing in vacuum. <i>Applied Physics Letters</i> , 2011 , 99, 233103	3.4	20

63	Tunable Silver Nanocap Superlattice Arrays for Surface-Enhanced Raman Scattering. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 24328-24333	3.8	25
62	Room temperature ferromagnetic pure ZnO. <i>Physica B: Condensed Matter</i> , 2011 , 406, 19-23	2.8	23
61	Effect of distance between acceptor and donor on optical properties of composite semiconducting polymer films. <i>Journal of Luminescence</i> , 2011 , 131, 815-819	3.8	11
60	Magnetic characterization of Bi(Fe _{1-x} Mn _x)O ₃ . <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2011 , 375, 1209-1212	2.3	8
59	Modulating emission from acceptor in donor-acceptor diblock copolymers by plasmon resonance energy transfer. <i>Journal of Applied Physics</i> , 2011 , 110, 114319	2.5	2
58	Effect of absorption to nanopore on optical properties of conjugated polymers in porous anode alumina. <i>Journal of Applied Physics</i> , 2011 , 109, 044309-044309-5	2.5	4
57	Band-gap-dependent emissions from conjugated polymers coupled silver nanocap array. <i>Applied Physics Letters</i> , 2011 , 99, 233112	3.4	3
56	Enhanced emission from the acceptor in all-conjugated diblock copolymers due to spatial effect of nanopores. <i>Journal of Applied Physics</i> , 2011 , 110, 104304	2.5	
55	Modulation of surface-enhanced Raman spectra by depth selective excitation of embedded indium tin oxide nanoisland arrays. <i>Journal Physics D: Applied Physics</i> , 2011 , 44, 215305	3	5
54	Recent developments in optofluidic-surface-enhanced Raman scattering systems: Design, assembly, and advantages. <i>Journal of Materials Research</i> , 2011 , 26, 170-185	2.5	22
53	Multiferroic ZnO obtained by substituting oxygen with nitrogen. <i>Chinese Physics B</i> , 2011 , 20, 087505	1.2	5
52	Hot spots in silver nano-dendrites fabricated by self-selective electroless plating 2010 ,		1
51	Trace detection of multiwalled carbon nanotubes using Raman-enhancing silver nanocap arrays. <i>Journal Physics D: Applied Physics</i> , 2010 , 43, 455302	3	4
50	High-sensitivity and stable cellular fluorescence imaging by patterned silver nanocap arrays. <i>ACS Applied Materials & Interfaces</i> , 2010 , 2, 2465-70	9.5	30
49	The magnetic properties of La doped and codoped BiFeO ₃ . <i>Journal of Alloys and Compounds</i> , 2010 , 499, 108-112	5.7	81
48	The broadened and red-shifted photoluminescence spectral emission of poly(N-vinylcarbazole) nanoparticles. <i>Dyes and Pigments</i> , 2010 , 84, 165-168	4.6	3
47	Surface-Enhanced Raman Scattering Sensor Based on Silver Dendritic Nanostructures. <i>Sensor Letters</i> , 2010 , 8, 395-398	0.9	5
46	The magnetic properties of Bi(Fe _{0.95} Co _{0.05})O ₃ ceramics. <i>Applied Physics Letters</i> , 2009 , 95, 112510	3.4	106

45	Recent progress in fabrication of anisotropic nanostructures for surface-enhanced Raman spectroscopy. <i>Recent Patents on Nanotechnology</i> , 2009 , 3, 10-20	1.2	15
44	Controlled assembly of highly Raman-enhancing silver nanocap arrays templated by porous anodic alumina membranes. <i>Small</i> , 2009 , 5, 2333-7	11	80
43	Enhanced emission from Alq3 in PVK/Alq3 blend films based on resonance energy transfer. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2009 , 47, 1772-1777	2.6	2
42	Aligned silver nanorod arrays for surface-enhanced Raman spectroscopy. <i>Physica B: Condensed Matter</i> , 2009 , 404, 1523-1526	2.8	15
41	Tailoring light emission properties of organic emitter by coupling to resonance-tuned silver nanoantenna arrays. <i>Applied Physics Letters</i> , 2009 , 95, 213104	3.4	23
40	Hot spots in highly Raman-enhancing silver nano-dendrites. <i>Journal Physics D: Applied Physics</i> , 2009 , 42, 175403	3	44
39	Self-selective electroless plating: An approach for fabrication of functional 1D nanomaterials. <i>Materials Science and Engineering Reports</i> , 2008 , 61, 59-77	30.9	76
38	Silver fractal networks for surface-enhanced Raman scattering substrates. <i>Applied Surface Science</i> , 2008 , 254, 5399-5402	6.7	21
37	Effective passivation on Si nanocrystal surface by peroxide. <i>Journal of Crystal Growth</i> , 2007 , 304, 86-89	1.6	3
36	Luminescence properties of ultrasmall amorphous Si nanoparticles with sizes smaller than 2nm. <i>Journal of Crystal Growth</i> , 2007 , 304, 476-480	1.6	7
35	Self-assembled growth of MgO nanosheet arrays via a micro-arc oxidation technique. <i>Applied Surface Science</i> , 2007 , 253, 3987-3990	6.7	28
34	Intergrowth mechanism of silicon nanowires and silver dendrites. <i>Journal of Electronic Materials</i> , 2006 , 35, 1879-1884	1.9	55
33	Si nanowires sheathed with thin diamondlike carbon films. <i>Journal of Vacuum Science & Technology B</i> , 2006 , 24, 1702		1
32	Resonant electron transfer and luminescent enhancement in a toluene suspension of Si nanocrystals. <i>Journal of Chemical Physics</i> , 2006 , 125, 054713	3.9	7
31	Luminescent amorphous alumina nanoparticles in toluene solution. <i>Journal of Physics Condensed Matter</i> , 2006 , 18, 9937-9942	1.8	13
30	Silver nanocrystal superlattices: Self-assembly and optical emission. <i>Applied Physics Letters</i> , 2006 , 88, 143111	3.4	12
29	Synthesis and magnetic properties of Zn _{1-x} CoxO nanorods. <i>Journal of Applied Physics</i> , 2006 , 99, 074303	2.5	64
28	Photoluminescence from C60-coupled porous structures formed on Fe ⁺ -implanted silicon. <i>Journal of Chemical Physics</i> , 2006 , 125, 014706	3.9	2

27	Local vibration at the surface of a Ge nanocrystal embedded in a silicon oxide matrix. <i>Journal of Applied Physics</i> , 2006 , 99, 014301	2.5	11
26	Silver nanocrystal superlattice coating for molecular sensing by surface-enhanced Raman spectroscopy. <i>Applied Physics Letters</i> , 2006 , 89, 131914	3.4	38
25	Surface-enhanced Raman characteristics of Ag cap aggregates on silicon nanowire arrays. <i>Nanotechnology</i> , 2006 , 17, 5769-5772	3.4	55
24	Characteristics and surface energy of silicon-doped diamond-like carbon films fabricated by plasma immersion ion implantation and deposition. <i>Diamond and Related Materials</i> , 2006 , 15, 1276-1281	3.5	43
23	Self-assembled growth and green emission of gold nanowhiskers. <i>Applied Physics Letters</i> , 2005 , 87, 2231-2234	3.5	21
22	Origin of the 370-nm luminescence in Si oxide nanostructures. <i>Applied Physics Letters</i> , 2005 , 86, 201906	3.4	24
21	Experimental evidence for the quantum confinement effect in 3C-SiC nanocrystallites. <i>Physical Review Letters</i> , 2005 , 94, 026102	7.4	264
20	Luminescent silicon carbide nanocrystallites in 3C-SiC/polystyrene films. <i>Applied Physics Letters</i> , 2005 , 86, 171903	3.4	34
19	Self-assembled growth and enhanced blue emission of SiOxNy-capped silicon nanowire arrays. <i>Applied Physics Letters</i> , 2005 , 86, 193111	3.4	20
18	From Si nanotubes to nanowires: Synthesis, characterization, and self-assembly. <i>Journal of Crystal Growth</i> , 2005 , 277, 143-148	1.6	61
17	Mo-containing diamond-like carbon films with blue emission. <i>Journal of Crystal Growth</i> , 2005 , 281, 538-542	1.6	4
16	Self-organized synthesis of micrometer scale silver disks by electroless metal deposition on Si-incorporated diamond-like carbon films. <i>Journal of Crystal Growth</i> , 2005 , 284, 470-476	1.6	4
15	Solvent effect on light-emitting property of Si nanocrystals. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2005 , 334, 447-452	2.3	23
14	Individual alumina nanotubes coaxially wrapping carbon nanotubes and nanowires. <i>Thin Solid Films</i> , 2005 , 478, 56-60	2.2	4
13	Anodizing process of Al films on Si substrates for forming alumina templates with short-distance ordered 25 nm nanopores. <i>Thin Solid Films</i> , 2005 , 492, 66-70	2.2	9
12	In situ synthesis of Mn-doped ZnO multileg nanostructures and Mn-related Raman vibration. <i>Journal of Applied Physics</i> , 2005 , 97, 014308	2.5	155
11	Alumina nanotubes and nanowires from Al-based porous alumina membranes. <i>Applied Physics A: Materials Science and Processing</i> , 2005 , 81, 621-625	2.6	13
10	Self-assembled growth of C60 nanowhiskers on anodic porous alumina membranes. <i>Applied Physics A: Materials Science and Processing</i> , 2005 , 81, 35-39	2.6	4

9	Self-catalytic synthesis and light-emitting property of highly aligned Mn-doped Zn ₂ SiO ₄ nanorods. <i>Applied Physics A: Materials Science and Processing</i> , 2005 , 81, 929-931	2.6	15
8	Self-organized synthesis of silver dendritic nanostructures via an electroless metal deposition method. <i>Applied Physics A: Materials Science and Processing</i> , 2005 , 81, 669-671	2.6	65
7	Self-assembled growth and blue emission of a SiO(x)-capped (x = 0.5-0.8) silicon nanowire array. <i>Nanotechnology</i> , 2005 , 16, 2222-6	3.4	5
6	Self-assembled growth and optical emission of silver-capped silicon nanowires. <i>Applied Physics Letters</i> , 2004 , 84, 3867-3869	3.4	41
5	Influence of polar solvent on light-emitting property of SiO(x) ($x = 1.2-1.6$) nanoparticles irradiated by ultraviolet ozone. <i>European Physical Journal B</i> , 2004 , 41, 49-53	1.2	5
4	Enhanced photoluminescence from Cr ³⁺ centers in Sapphire coated with LiNbO ₃ (:Fe) and LiTaO ₃ films. <i>Applied Physics A: Materials Science and Processing</i> , 2004 , 79, 2085-2087	2.6	2
3	Splitting of X-ray diffraction peak in (Ge:SiO ₂)/SiO ₂ multilayers. <i>Solid State Communications</i> , 2004 , 131, 21-25	1.6	23
2	Structural engineering of transition-metal nitrides for surface-enhanced Raman scattering chips. <i>Nano Research</i> , 1	10	1
1	Mixed-dimensional van der Waals heterojunction-enhanced Raman scattering. <i>Nano Research</i> , 1	10	5