S Kadkhodazadeh

List of Publications by Year
in descending order

41 papers	1,295 citations	471477 17 h-index	377849 34 g-index
42 all docs	42 docs citations	42 times ranked	2040 citing authors

#	Article	IF	Citations
1	Metalâ€“polymer hybrid nanomaterials for plasmonic ultrafast hydrogen detection. Nature Materials, 2019, 18, 489-495.	27.5	227
2	Blueshift of the surface plasmon resonance in silver nanoparticles studied with EELS. Nanophotonics, 2013, 2, 131-138.	6.0	178
3	Multipole plasmons and their disappearance in few-nanometre silver nanoparticles. Nature Communications, 2015, 6, 8788.	12.8	139
4	Self-supported Ptâ€“CoO networks combining high specific activity with high surface area for oxygen reduction. Nature Materials, 2021, 20, 208-213.	27.5	139
5	Extremely confined gap surface-plasmon modes excited by electrons. Nature Communications, 2014, 5, 4125.	12.8	72
6	Scaling of the Surface Plasmon Resonance in Gold and Silver Dimers Probed by EELS. Journal of Physical Chemistry C, 2014, 118, 5478-5485.	3.1	62
7	Rationally Designed PdAuCu Ternary Alloy Nanoparticles for Intrinsically Deactivation-Resistant Ultrafast Plasmonic Hydrogen Sensing. ACS Sensors, 2019, 4, 1424-1432.	7.8	62
8	Optical Propertyâ€“Composition Correlation in Noble Metal Alloy Nanoparticles Studied with EELS. ACS Photonics, 2019, 6, 779-786.	6.6	42
9	Surface-enhanced Raman scattering on aluminum using near infrared and visible excitation. Chemical Communications, 2014, 50, 3744-3746.	4.1	38
10	Coexistence of classical and quantum plasmonics in large plasmonic structures with subnanometer gaps. Applied Physics Letters, 2013, 103, 083103.	3.3	36
11	Electron inelastic mean free path in water. Nanoscale, 2020, 12, 20649-20657.	5.6	34
12	Quantitative strain mapping of InAs/InP quantum dots with 1â€‰nm spatial resolution using dark field electron holography. Applied Physics Letters, 2011, 99, .	3.3	30
13	Persistent template effect in InAs/GaAs quantum dot bilayers. Journal of Applied Physics, 2010, 107, .	2.5	23
14	The Substrate Effect in Electron Energy-Loss Spectroscopy of Localized Surface Plasmons in Gold and Silver Nanoparticles. ACS Photonics, 2017, 4, 251-261.	6.6	22
15	Optical and electronic properties of low-density InAs/InP quantum-dot-like structures designed for single-photon emitters at telecom wavelengths. Physical Review B, 2020, 101, .	3.2	20
16	Electron Energy Loss and One- and Two-Photon Excited SERS Probing of â€œHotâ€•Plasmonic Silver Nanoaggregates. Plasmonics, 2013, 8, 763-767.	3.4	18
17	Metal organic vapor-phase epitaxy of InAs/InGaAsP quantum dots for laser applications at 1.5 <i>Î¼</i>m. Applied Physics Letters, 2011, 99, .	3.3	17
18	Understanding the Thermal Stability of Silver Nanoparticles Embedded in a-Si. Journal of Physical Chemistry C, 2015, 119, 23767-23773.	3.1	16

#	ARTICLE	IF	CITATIONS
19	Surface enhanced Raman scattering (SERS) in the visible range on scalable aluminum-coated platforms. Chemical Communications, 2018, 54, 10638-10641.	4.1	16
20	Droplet epitaxy symmetric InAs/InP quantum dots for quantum emission in the third telecom window: morphology, optical and electronic properties. Nanophotonics, 2022, 11, 1515-1526.	6.0	13
21	Performance and stability of mirror coatings for the ATHENA mission. , 2018, , .		12
22	High resolution STEM of quantum dots and quantum wires. Micron, 2013, 44, 75-92.	2.2	11
23	New amorphous interface for precipitate nitrides in steel. Philosophical Magazine, 2014, 94, 2339-2349.	1.6	10
24	Aminopropylsilatrane Linkers for Easy and Fast Fabrication of High-Quality 10 nm Thick Gold Films on SiO₂ Substrates. ACS Applied Nano Materials, 2020, 3, 4418-4427.	5.0	9
25	Broadband infrared absorption enhancement by electroless-deposited silver nanoparticles. Nanophotonics, 2017, 6, 289-297.	6.0	6
26	Initiation and Progression of Anisotropic Galvanic Replacement Reactions in a Single Ag Nanowire: Implications for Nanostructure Synthesis. ACS Applied Nano Materials, 2021, 4, 12346-12355.	5.0	6
27	Epitaxial growth of quantum dots on InP for device applications operating at the 1.55 Î¼m wavelength range. , 2014, , .		5
28	Interfacial Interaction of Oxidatively Cured Hydrogen Silsesquioxane Spin-On-Glass Enamel with Stainless Steel Substrate. Journal of the Electrochemical Society, 2017, 164, C231-C239.	2.9	5
29	Monolithic integration of InP on Si by molten alloy driven selective area epitaxial growth. Nanoscale, 2020, 12, 23780-23788.	5.6	5
30	Competing oxidation mechanisms in Cu nanoparticles and their plasmonic signatures. Nanoscale, 2022, 14, 8332-8341.	5.6	5
31	Towards measuring bandgap inhomogeneities in InAs/GaAs quantum dots. Journal of Physics: Conference Series, 2008, 126, 012049.	0.4	4
32	Investigating the chemical and morphological evolution of GaAs capped InAs/InP quantum dots emitting at 1.5Î¼m using aberration-corrected scanning transmission electron microscopy. Journal of Crystal Growth, 2011, 329, 57-61.	1.5	4
33	High-quality MOVPE butt-joint integration of InP/AlGaInAs/InGaAsP-based all-active optical components. Journal of Crystal Growth, 2014, 402, 243-248.	1.5	4
34	Resonance Energy Transfer in Hybrid Devices in the Presence of a Surface. Journal of Physical Chemistry C, 2014, 118, 16284-16289.	3.1	2
35	Probing the Chemistry of Adhesion between a 316L Substrate and Spin-on-Glass Coating. Langmuir, 2018, 34, 3170-3176.	3.5	2
36	Mapping boron in silicon solar cells using electron energy-loss spectroscopy. Journal of Physics: Conference Series, 2011, 326, 012052.	0.4	1

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37	Towards quantitative three-dimensional characterisation of buried InAs quantum dots. Journal of Physics: Conference Series, 2011, 326, 012046.	0.4	0
38	Nanoscale Semiconductor Optical Devices. NATO Science for Peace and Security Series B: Physics and Biophysics, 2013, , 417-418.	0.3	0
39	Nonplanar nanoselective area growth of InGaAs/InP. , 2014, , .		0
40	A valence force field-Monte Carlo algorithm for quantum dot growth modeling. , 2017, , .		0
41	Nano-selective area growth of InGaAs/InP using CBr4 in- situ etching. , 2012, , .		0