Yiping Zhao

List of Publications by Year in Descending Order

324 papers	13,227 citations	63 h-index	99 g-index
346 ext. papers	14,381 ext. citations	4.6 avg, IF	6.64 L-index

#	Paper	IF	Citations
324	Nanotechnology for stroke treatment **2022**, 339-369		
323	DNA self-assembled Au nanoparticle clusters on silver nanorod arrays for high-sensitive and multiplex detection of cancer-related biomarkers.. *Nanoscale*, **2022**,	7.7	1
322	Silver nanotriangle array based LSPR sensor for rapid coronavirus detection.. *Sensors and Actuators B: Chemical*, **2022**, 359, 131604	8.5	8
321	Spectroscopic investigation of the electronic and excited state properties of para-substituted tetraphenyl porphyrins and their electrochemically generated ions.. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **2022**, 278, 121300	4.4	1
320	Plasmonic Hydrogen Sensors.. *Small*, **2022**, e2107882	11	1
319	Janus Particles with Flower-like Patches Prepared by Shadow Sphere Lithography. *Langmuir*, **2021**, 37, 13637-13644	4	1
318	Active Ag/Co Composite Chiral Nanohole Arrays. *Journal of Physical Chemistry C*, **2021**, 125, 716-723	3.8	2
317	Pd80Co20 Nanohole Arrays Coated with Poly(methyl methacrylate) for High-Speed Hydrogen Sensing with a Part-per-Billion Detection Limit. *ACS Applied Nano Materials*, **2021**, 4, 3664-3674	5.6	2
316	Facile Fabrication of Composite Ag/Fe3O4 and Porous Fe3O4 Nanorods Based on Oblique Angle Codeposition. *Journal of Physical Chemistry C*, **2021**, 125, 11750-11755	3.8	
315	The effect of nanorod position on the plasmonic properties of the complex nanorod in nanohole arrays. *Journal Physics D: Applied Physics*, **2021**, 54, 155201	3	2
314	Performance of Transparent Metallic Thin Films. *Journal of Physical Chemistry C*, **2021**, 125, 16334-16342	3.8	1
313	Highly Conductive Nanograting□Nanohole Structures with Tunable and Dual-Band Spectral Transparency. *ACS Applied Electronic Materials*, **2021**, 3, 3489-3500	4	1
312	Coupling between plasmonic nanohole array and nanorod array: the emerging of a new extraordinary optical transmission mode and epsilon-near-zero property. *Journal Physics D: Applied Physics*, **2020**, 53, 275202	3	8
311	High-Sensitive Assay of Nucleic Acid Using Tetrahedral DNA Probes and DNA Concatamers with a Surface-Enhanced Raman Scattering/Surface Plasmon Resonance Dual-Mode Biosensor Based on a Silver Nanorod-Covered Silver Nanohole Array. *ACS Applied Materials & Interfaces*, **2020**, 12, 31242-31254	9.5	16
310	Transition from discrete patches to plasmonic nanohole array by glancing angle deposition on nanosphere monolayers. *Nanotechnology*, **2020**, 31, 205301	3.4	8
309	The IR plasmonic properties of sub-wavelength ITO rod arrays predicted by anisotropic effective medium theory. *Nanotechnology*, **2020**, 31, 075203	3.4	
308	Generalized ellipsometry characterization of Ag nanorod arrays prepared by oblique angle deposition. *Nanotechnology*, **2020**, 31, 075705	3.4	

307	Chiral nanohole arrays. *Nanoscale*, **2020**, 12, 2479-2491	7.7	11
306	Highly Efficient Antimicrobial Activity of CuFeO Nanoparticles against Important Human Pathogens. *Nanomaterials*, **2020**, 10,	5.4	2
305	Large-Area Fabrication of Complex Nanohole Arrays with Highly Tunable Plasmonic Properties. *ACS Applied Materials & Interfaces*, **2020**, 12, 37435-37443	9.5	7
304	Composition Effects on Ultrafast Optical Properties of CuxOy Thin Films: A Transient Absorption Study. *Journal of Physical Chemistry C*, **2020**, 124, 24908-24918	3.8	7
303	Discretized Motion of Surface Walker under a Nonuniform AC Magnetic Field. *Langmuir*, **2020**, 36, 11125-11137	4	2
302	The extraordinary optical transmission and sensing properties of Ag/Ti composite nanohole arrays. *Physical Chemistry Chemical Physics*, **2019**, 21, 3771-3780	3.6	19
301	Improving LSPR sensing performance using multilayered composition graded Ag-Cu nanotriangle arrays. *Chemical Communications*, **2019**, 55, 1342-1344	5.8	10
300	Magnetoplasmonic properties of Ag-Co composite nanohole arrays. *Physical Review B*, **2019**, 99,	3.3	11
299	Hybrid CuxO□TiO2 Nanopowders Prepared by Ball Milling for Solar Energy Conversion and Visible-Light-Induced Wastewater Treatment. *ACS Applied Nano Materials*, **2019**, 2, 2446-2455	5.6	13
298	Dipole Radiation-Induced Extraordinary Optical Transmission for Silver Nanorod-Covered Silver Nanohole Arrays. *Journal of Physical Chemistry C*, **2019**, 123, 5634-5641	3.8	12
297	Magneto-plasmonic properties of Ag-Co composite nano-triangle arrays. *Nanotechnology*, **2019**, 30, 425203	3.4	4
296	Enhanced Resonant Faraday Rotation in Multilayer Magnetoplasmonic Nanohole Arrays and Their Sensing Application. *Journal of Physical Chemistry C*, **2019**, 123, 28377-28384	3.8	8
295	Manipulation of Single Cells Using a Ferromagnetic Nanorod Cluster Actuated by Weak AC Magnetic Fields. *Advanced Biology*, **2019**, 3, e1800246	3.5	5
294	Optimized fan-shaped chiral metamaterial as an ultrathin narrow-band circular polarizer at visible frequencies. *Nanotechnology*, **2018**, 29, 165301	3.4	5
293	Layer-by-layer assembly of nanorods on a microsphere via electrostatic interactions. *Soft Matter*, **2018**, 14, 4541-4550	3.6	9
292	Plasmonic and SERS performances of compound nanohole arrays fabricated by shadow sphere lithography. *Nanotechnology*, **2018**, 29, 095301	3.4	13
291	Localized Surface Plasmonic Resonance and Sensing Properties of Ag□MgF2 Composite Nanotriangles. *Journal of Physical Chemistry C*, **2018**, 122, 7374-7381	3.8	14
290	Improved thermal stability of cellulose nanofibrils using low-concentration alkaline pretreatment. *Carbohydrate Polymers*, **2018**, 181, 506-513	10.3	33

289	Reconfiguring ferromagnetic microrod chains by alternating two orthogonal magnetic fields. *Journal of Physics Condensed Matter*, **2018**, 30, 315101	1.8	
288	Active colloids: Toward an intelligent micromachine **2018**, 279-312		1
287	Large-area broadband optical absorber fabricated by shadowing sphere lithography. *Optics Express*, **2018**, 26, 7507-7515	3.3	13
286	Growth and optical properties of Ag-Ti composite nanorods based on oblique angle co-deposition technique. *Optics Express*, **2018**, 26, 12022-12037	3.3	2
285	Weak enhanced resonant Faraday rotation in pure cobalt plasmonic lattices: Thickness dependent Faraday rotation studies. *Journal of Magnetism and Magnetic Materials*, **2018**, 468, 79-84	2.8	10
284	A Flexible Strategy to Fabricate Gradient Plasmonic Nanostructures. *Advanced Materials Interfaces*, **2018**, 5, 1800975	4.6	4
283	Glancing angle deposition meets colloidal lithography: a new evolution in the design of nanostructures. *Nanophotonics*, **2018**, 8, 1-26	6.3	39
282	Tissue Plasminogen Activator-Porous Magnetic Microrods for Targeted Thrombolytic Therapy after Ischemic Stroke. *ACS Applied Materials & Interfaces*, **2018**, 10, 32988-32997	9.5	64
281	Physical vapor deposition of Ag nanoparticles through shadowing and re-emission effects. *Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics*, **2018**, 36, 051802	1.3	3
280	Strong Fano Resonance Excited in an Array of Nanoparticle-in-Ring Nanostructures for Dual Plasmonic Sensor Applications. *Journal of Physical Chemistry C*, **2018**, 122, 20935-20944	3.8	19
279	On the peculiar bubble formation, growth, and collapse behaviors in catalytic micro-motor systems. *Microfluidics and Nanofluidics*, **2017**, 21, 1	2.8	12
278	Rapid and sensitive detection of sodium saccharin in soft drinks by silver nanorod array SERS substrates. *Sensors and Actuators B: Chemical*, **2017**, 251, 272-279	8.5	54
277	On-demand fabrication of surface-enhanced Raman scattering arrays by pen writing, and their application to the determination of melamine in milk. *Mikrochimica Acta*, **2017**, 184, 2909-2917	5.8	26
276	Manipulation of magnetic nanorod clusters in liquid by non-uniform alternating magnetic fields. *Soft Matter*, **2017**, 13, 3750-3759	3.6	11
275	Ag-Cu mixed phase plasmonic nanostructures fabricated by shadow nanosphere lithography and glancing angle co-deposition. *Nanotechnology*, **2017**, 28, 015301	3.4	15
274	Plasmonic sensor with high figure of merit based on differential polarization spectra of elliptical nanohole array. *Nanoscale*, **2017**, 9, 14710-14721	7.7	31
273	Nanoparticle-Mediated Mechanical Destruction of Cell Membranes: A Coarse-Grained Molecular Dynamics Study. *ACS Applied Materials & Interfaces*, **2017**, 9, 26665-26673	9.5	19
272	Label-free SERS detection of Salmonella Typhimurium on DNA aptamer modified AgNR substrates. *Journal of Food Measurement and Characterization*, **2017**, 11, 1773-1779	2.8	23

271	Tuning the plasmonic properties of silver nanopatterns fabricated by shadow nanosphere lithography. *Nanotechnology*, **2016**, 27, 385301	3.4	14
270	Large circular dichroism and optical rotation in titanium doped chiral silver nanorods. *Annalen Der Physik*, **2016**, 528, 677-683	2.6	9
269	Combinatorial fabrication of composite nanorods using oblique angle co-deposition. *Nanotechnology*, **2016**, 27, 365304	3.4	5
268	Visible Light-Induced Photoeletrochemical and Antimicrobial Properties of Hierarchical CuBi2O4 by Facile Hydrothermal Synthesis. *ChemistrySelect*, **2016**, 1, 1518-1524	1.8	24
267	Magnetically active Fe3O4 nanorods loaded with tissue plasminogen activator for enhanced thrombolysis. *Nano Research*, **2016**, 9, 2652-2661	10	39
266	Dynamic scaling of ferromagnetic micro-rod clusters under a weak magnetic field. *Soft Matter*, **2016**, 12, 8440-8447	3.6	5
265	Uniform Plasmonic Response of Colloidal Ag Patchy Particles Prepared by Swinging Oblique Angle Deposition. *Langmuir*, **2016**, 32, 4969-74	4	12
264	Tuning the composition of Bi x W y O nanorods towards zero bias PEC water splitting. *Nanotechnology*, **2016**, 27, 255401	3.4	9
263	Designed to Fail: Flexible, Anisotropic Silver Nanorod Sheets for Low-Cost Wireless Activity Monitoring. *Journal of Physical Chemistry C*, **2016**, 120, 14969-14976	3.8	5
262	Circular dichroism based refractive index sensing using chiral metamaterials. *Chemical Communications*, **2016**, 52, 2047-50	5.8	25
261	Direct detection of malaria infected red blood cells by surface enhanced Raman spectroscopy. *Nanomedicine: Nanotechnology, Biology, and Medicine*, **2016**, 12, 1445-51	6	41
260	Fe2O3□TiO2 core□shell nanorod arrays for visible light photocatalytic applications. *Catalysis Today*, **2016**, 270, 51-58	5.3	38
259	Tuning the CuxO nanorod composition for efficient visible light induced photocatalysis. *Catalysis Science and Technology*, **2016**, 6, 2228-2238	5.5	49
258	Highly Sensitive Detection of Melamine Using a One-Step Sample Treatment Combined with a Portable Ag Nanostructure Array SERS Sensor. *PLoS ONE*, **2016**, 11, e0154402	3.7	12
257	Highly Sensitive Detection of Clenbuterol in Animal Urine Using Immunomagnetic Bead Treatment and Surface-Enhanced Raman Spectroscopy. *Scientific Reports*, **2016**, 6, 32637	4.9	21
256	Self-Diffusiophoresis of Janus Catalytic Micromotors in Confined Geometries. *Langmuir*, **2016**, 32, 5580-92	4	27
255	Rapid Detection of Pathogenic Bacteria from Fresh Produce by Filtration and Surface-Enhanced Raman Spectroscopy. *Jom*, **2016**, 68, 1156-1162	2.1	15
254	Visible-Light-Activated Bactericidal Functions of Carbon "Quantum" Dots. *ACS Applied Materials & Interfaces*, **2016**, 8, 10761-6	9.5	160

253	An ultrasensitive SERS sensor for simultaneous detection of multiple cancer-related miRNAs. *Nanoscale*, **2016**, 8, 17365-17373	7.7	78
252	Multifunctional iron oxide□arbon hybrid microrods. *RSC Advances*, **2016**, 6, 98845-98853	3.7	4
251	SERS spectrum of the peptide thymosin-β4 obtained with Ag nanorod substrate. *Journal of Raman Spectroscopy*, **2015**, 46, 194-196	2.3	5
250	Differentiation and classification of bacteria using vancomycin functionalized silver nanorods array based surface-enhanced Raman spectroscopy and chemometric analysis. *Talanta*, **2015**, 139, 96-103	6.2	55
249	Detection of polycyclic aromatic hydrocarbons from cooking oil using ultra-thin layer chromatography and surface enhanced Raman spectroscopy. *Journal of Materials Chemistry B*, **2015** , 3, 1898-1906	7.3	23
248	Pore collapse and regrowth in silicon electrodes for rechargeable batteries. *Physical Chemistry Chemical Physics*, **2015**, 17, 11301-12	3.6	24
247	Strong Local Chiroptical Response in Racemic Patchy Silver Films: Enabling a Large-Area Chiroptical Device. *ACS Photonics*, **2015**, 2, 1246-1252	6.3	19
246	Optimization of Ag-Coated Polystyrene Nanosphere Substrates for Quantitative Surface-Enhanced Raman Spectroscopy Analysis. *Journal of Physical Chemistry C*, **2015**, 119, 27639-27648	3.8	41
245	Continuously tuning the spectral response of chiral plasmonic patchy particles through galvanic replacement reaction. *RSC Advances*, **2015**, 5, 101257-101261	3.7	4
244	Roles of Cu concentration in the photocatalytic activities of Cu-doped TiO 2 from GGA+ U calculations. *Solid State Communications*, **2015**, 204, 23-27	1.6	13
243	Characterization of polycyclic aromatic hydrocarbons using Raman and surface-enhanced Raman spectroscopy. *Journal of Raman Spectroscopy*, **2015**, 46, 64-69	2.3	24
242	Thermophoresis of aerosol particles in near-critical vapor: An inverse size effect. *Applied Physics Letters*, **2015**, 106, 251605	3.4	7
241	Functionalization of Reactive End Groups in Surface-Initiated Kumada Catalyst-Transfer Polycondensation. *Macromolecular Symposia*, **2015**, 351, 27-36	0.8	3
240	Marangoni Flow Induced Collective Motion of Catalytic Micromotors. *Journal of Physical Chemistry C*, **2015**, 119, 28361-28367	3.8	22
239	Nanoscale Conical Swiss Roll with Broadband Visible and NIR Circular Dichroism. *Advanced Optical Materials*, **2015**, 3, 342-346	8.1	14
238	Potential enhancement of superconductivity in MgB2 nanosheets: First-principles calculations. *Chemical Physics Letters*, **2014**, 591, 185-188	2.5	6
237	Superior dye adsorption capacity of amorphous WO3 sub-micrometer rods fabricated by glancing angle deposition. *Journal of Materials Chemistry A*, **2014**, 2, 911-914	13	38
236	Scalable Fabrication of Composite Ti/Ag Plasmonic Helices: Controlling Morphology and Optical Activity by Tailoring Material Properties. *Advanced Optical Materials*, **2014**, 2, 245-249	8.1	46

235	Controllable and reversible hot spot formation on silver nanorod arrays. *Chemical Communications*, **2014**, 50, 106-8	5.8	12
234	The fabrication of three-dimensional plasmonic chiral structures by dynamic shadowing growth. *Nanoscale*, **2014**, 6, 9467-76	7.7	27
233	Gold-modified silver nanorod arrays for SERS-based immunoassays with improved sensitivity. *Journal of Materials Chemistry B*, **2014**, 2, 7488-7494	7.3	21
232	Design and Applications of Nanomaterial-Based and Biomolecule-Based Nanodevices and Nanosensors. *Challenges and Advances in Computational Chemistry and Physics*, **2014**, 61-97	0.7	6
231	Acceleration of tissue plasminogen activator-mediated thrombolysis by magnetically powered nanomotors. *ACS Nano*, **2014**, 8, 7746-54	16.7	126
230	Detection of metronidazole and ronidazole from environmental samples by surface enhanced Raman spectroscopy. *Talanta*, **2014**, 128, 293-8	6.2	50
229	Culture-free diagnostics of Pseudomonas aeruginosa infection by silver nanorod array based SERS from clinical sputum samples. *Nanomedicine: Nanotechnology, Biology, and Medicine*, **2014**, 10, 1863-70	6	49
228	Force–moment line element method for Stokes flow around a slender body. *Engineering Analysis With Boundary Elements*, **2014**, 44, 120-129	2.6	2
227	Tunable three-dimensional helically stacked plasmonic layers on nanosphere monolayers. *Nano Letters*, **2014**, 14, 1976-81	11.5	65
226	Dynamic Shadowing Growth and Its Energy Applications. *Frontiers in Energy Research*, **2014**, 2,	3.8	12
225	Extracting the anisotropic optical parameters of chiral plasmonic nanostructured thin films using generalized ellipsometry. *Applied Physics Letters*, **2014**, 105, 071109	3.4	18
224	Highly sensitive double-layered nanorod array gas sensors prepared by oblique angle deposition. *Applied Physics Letters*, **2014**, 104, 073110	3.4	10
223	Hydrophobic catalytic Janus motors: Slip boundary condition and enhanced catalytic reaction rate. *Applied Physics Letters*, **2014**, 104, 054102	3.4	15
222	Chemical Storage Based on Metal Hydrides and Hydrocarbons **2014**, 91-119		
221	Rapid detection of Pseudomonas aeruginosa biomarkers in biological fluids using surface-enhanced Raman scattering **2014**,		2
220	Detection of E. coli using SERS active filters with silver nanorod array. *Sensors and Actuators B: Chemical*, **2014**, 191, 485-490	8.5	33
219	Oblique angle deposition and its applications in plasmonics. *Frontiers of Physics*, **2014**, 9, 47-59	3.7	56
218	Bubble-Propelled Microjets: Model and Experiment. *Journal of Physical Chemistry C*, **2013**, 117, 4657-4665	4.8	65

217	Catalytic Nanoshell Micromotors. *Journal of Physical Chemistry C*, **2013**, 117, 21590-21596	3.8	55
216	Ag nanoparticle embedded TiO(2) composite nanorod arrays fabricated by oblique angle deposition: toward plasmonic photocatalysis. *ACS Applied Materials & Interfaces*, **2013**, 5, 11818-27	9.5	68
215	Semiconducting ground-state of three polymorphs of Mg2NiH4 from first-principles calculations. *International Journal of Hydrogen Energy*, **2013**, 38, 16471-16476	6.7	7
214	Detection and differentiation of foodborne pathogenic bacteria in mung bean sprouts using field deployable label-free SERS devices. *Analyst, The*, **2013**, 138, 3005-12	5	78
213	The Use of Silver Nanorod Array-Based Surface-Enhanced Raman Scattering Sensor for Food Safety Applications. *ACS Symposium Series*, **2013**, 85-108	0.4	6
212	Buckle-driven delamination of hydrophobic micro-, nano-, and heterostructured membranes without a sacrificial layer. *Nanoscale*, **2013**, 5, 10853-7	7.7	3
211	Anisotropic resistivity of tilted silver nanorod arrays: Experiments and modeling. *Applied Physics Letters*, **2013**, 102, 233101	3.4	15
210	Fe2O3 nanocolumns and nanorods fabricated by electron beam evaporation for visible light photocatalytic and antimicrobial applications. *ACS Applied Materials & Interfaces*, **2013**, 5, 2085-95	9.5	95
209	Hidden chirality in superficially racemic patchy silver films. *Nano Letters*, **2013**, 13, 6228-32	11.5	48
208	Tailoring terahertz plasmons with silver nanorod arrays. *Scientific Reports*, **2013**, 3,	4.9	19
207	Effects of composition-dependent modulus, finite concentration and boundary constraint on Li-ion diffusion and stresses in a bilayer Cu-coated Si nano-anode. *Journal of Power Sources*, **2012**, 204, 168-176	8.9	56
206	Nanostructured Scrolls from Graphene Oxide for Microjet Engines. *Journal of Physical Chemistry Letters*, **2012**, 3, 2204-8	6.4	45
205	Differentiating intrinsic SERS spectra from a mixture by sampling induced composition gradient and independent component analysis. *Analyst, The*, **2012**, 137, 73-6	5	2
204	On the role of the three-phase contact line in surface deformation. *Langmuir*, **2012**, 28, 5795-801	4	33
203	Label-free detection of micro-RNA hybridization using surface-enhanced Raman spectroscopy and least-squares analysis. *Journal of the American Chemical Society*, **2012**, 134, 12889-92	16.4	87
202	Ag-SiO2 core-shell nanorod arrays: morphological, optical, SERS, and wetting properties. *Langmuir*, **2012**, 28, 1488-95	4	30
201	Nanostructured homogenous CdSeTiO2 composite visible light photoanodes fabricated by oblique angle codeposition. *Journal of Materials Chemistry*, **2012**, 22, 14205		25
200	The use of a handheld Raman system for virus detection **2012**,		3

199	Highly Sensitive and Transparent Surface Enhanced Raman Scattering Substrates Made by Active Coldly Condensed Ag Nanorod Arrays. *Journal of Physical Chemistry C*, **2012**, 116, 20550-20557	3.8	35
198	Porous three-dimensional nanorod arrays through selective chemical etching of nanocomposites. *Chemical Communications*, **2012**, 48, 7741-3	5.8	7
197	The surface-enhanced Raman spectra of aflatoxins: spectral analysis, density functional theory calculation, detection and differentiation. *Analyst, The*, **2012**, 137, 4226-34	5	85
196	The growth of CuSi composite nanorod arrays by oblique angle co-deposition, and their structural, electrical and optical properties. *Nanotechnology*, **2012**, 23, 365703	3.4	17
195	Toward practical SERS sensing **2012**,		1
194	Designing Si-based nanowall arrays by dynamic shadowing growth to tailor the performance of Li-ion battery anodes. *Journal of Materials Chemistry*, **2012**, 22, 8294		19
193	Mechanically robust Si nanorod arrays on Cu/Ti bilayer film coated Si substrate for high performance lithium-ion battery anodes. *Journal of Applied Physics*, **2012**, 112, 103502	2.5	4
192	Ultrafast Charge Transfer Dynamics in Polycrystalline CdSe/TiO2 Nanorods Prepared by Oblique Angle Codeposition. *Journal of Physical Chemistry C*, **2012**, 116, 5033-5041	3.8	35
191	Flexible and mechanical strain resistant large area SERS active substrates. *Nanoscale*, **2012**, 4, 3410-4	7.7	100
190	On-chip ultra-thin layer chromatography and surface enhanced Raman spectroscopy. *Lab on A Chip*, **2012**, 12, 3096-102	7.2	49
189	Enhanced surface-enhanced Raman scattering performance by folding silver nanorods. *Applied Physics Letters*, **2012**, 100, 113101	3.4	49
188	Gold-modified silver nanorod arrays: growth dynamics and improved SERS properties. *Journal of Materials Chemistry*, **2012**, 22, 1150-1159		41
187	Composition dependent nanocolumn tilting angle during the oblique angle co-deposition. *Applied Physics Letters*, **2012**, 100, 033106	3.4	16
186	Optical properties of nanostructured TiO2 thin films and their application as antireflection coatings on infrared detectors. *Optics Letters*, **2012**, 37, 4302-4	3	29
185	Bubble driven quasioscillatory translational motion of catalytic micromotors. *Physical Review Letters*, **2012**, 109, 128305	7.4	91
184	Anisotropic Diffraction from Inclined Silver Nanorod Arrays on Grating Templates. *Nanoscale and Microscale Thermophysical Engineering*, **2012**, 16, 18-36	3.7	6
183	Tilting angle of nanocolumnar films fabricated by oblique angle deposition. *Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics*, **2012**, 30, 030606	1.3	25
182	Detection and differentiation of avian mycoplasmas by surface-enhanced Raman spectroscopy based on a silver nanorod array. *Applied and Environmental Microbiology*, **2012**, 78, 1930-5	4.8	28

181	Surface-enhanced Raman spectroscopy study of single stranded DNA sequences on silver nanorod array **2012**,		1
180	Surface-enhanced Raman spectroscopy as a tool for characterizing nanostructures containing molecular components **2012**,		2
179	Surface-enhanced Raman spectroscopy signatures of an RNA molecule: An aptamer that binds to integrin **2012**,		2
178	Quasi-core-shell TiO2/WO3 and WO3/TiO2 nanorod arrays fabricated by glancing angle deposition for solar water splitting. *Journal of Materials Chemistry*, **2011**, 21, 10792		118
177	Optical Properties and Surface Enhanced Raman Scattering of L-Shaped Silver Nanorod Arrays. *Journal of Physical Chemistry C*, **2011**, 115, 14131-14140	3.8	25
176	Structural, Optical, and Photocatalytic Properties of Cr:TiO2 Nanorod Array Fabricated by Oblique Angle Codeposition. *Journal of Physical Chemistry C*, **2011**, 115, 16892-16903	3.8	33
175	Dynamic rastering surface-enhanced Raman scattering (SERS) measurements on silver nanorod substrates. *Applied Spectroscopy*, **2011**, 65, 734-40	3.1	15
174	Silicon and silicon copper composite nanorods for anodes of Li-ion rechargeable batteries. *Journal of Power Sources*, **2011**, 196, 9640-9647	8.9	48
173	Concentration-dependent hydrogen diffusion in hydrogenation and dehydrogenation of vanadium-coated magnesium nanoblades. *International Journal of Hydrogen Energy*, **2011**, 36, 15642-15651	6.7	3
172	Advanced multi-component nanostructures designed by dynamic shadowing growth. *Nanoscale*, **2011**, 3, 2361-75	7.7	69
171	Catalytic nanomotors: fabrication, mechanism, and applications. *Frontiers of Materials Science*, **2011**, 5, 25-39	2.5	67
170	Surface-enhanced Raman scattering from helical silver nanorod arrays. *Chemical Communications*, **2011**, 47, 4466-8	5.8	42
169	Geometrically designing the kinematic behavior of catalytic nanomotors. *Nano Letters*, **2011**, 11, 2543-50	11.5	65
168	Development of silver nanorod array based fiber optic probes for SERS detection. *Sensors and Actuators B: Chemical*, **2011**, 157, 42-50	8.5	44
167	Hydrogenation of magnesium nanoblades: The effect of concentration dependent hydrogen diffusion. *Applied Physics Letters*, **2011**, 98, 081905	3.4	10
166	Catalytic nanomotors: challenges and opportunities **2011**,		1
165	The visible extinction peaks of Ag nanohelixes: A periodic effective dipole model. *Applied Physics Letters*, **2011**, 98, 083102	3.4	19
164	Rapid and sensitive detection of rotavirus molecular signatures using surface enhanced Raman spectroscopy. *PLoS ONE*, **2010**, 5, e10222	3.7	75

163	Detection of Mycoplasma pneumoniae in simulated and true clinical throat swab specimens by nanorod array-surface-enhanced Raman spectroscopy. *PLoS ONE*, **2010**, 5, e13633	3.7	48
162	Antimicrobial Properties and Release Profile of Ampicillin from Electrospun Poly(epsilon;-caprolactone) Nanofiber Yarns. *Journal of Engineered Fibers and Fabrics*, **2010**, 5, 155892501000500	0.8	8
161	Hetero-structured nano-photocatalysts fabricated by dynamic shadowing growth **2010**,		1
160	Asymmetric Pt/Au coated catalytic micromotors fabricated by dynamic shadowing growth. *Applied Physics Letters*, **2010**, 97, 253107	3.4	48
159	The effect of underlayer thin films on the surface-enhanced Raman scattering response of Ag nanorod substrates. *Applied Physics Letters*, **2010**, 97, 121902	3.4	43
158	The Silver Nanorod Array SERS Substrates **2010**,		1
157	Impact of electric quadrupolar coupling on the optical response of an array of nano-objects. *Journal of Physics Condensed Matter*, **2010**, 22, 225301	1.8	1
156	Thermophysical properties of hydrogenated vanadium-doped magnesium porous nanostructures. *Nanotechnology*, **2010**, 21, 055707	3.4	12
155	Au nanoparticle based localized surface plasmon resonance substrates fabricated by dynamic shadowing growth. *Nanotechnology*, **2010**, 21, 175303	3.4	11
154	Surface-enhanced Raman scattering characterization of Ag nanorod arrays fabricated by oblique angle deposition **2010**,		1
153	Silver Nanorod Array Substrates Fabricated by Oblique Angle Deposition: Morphological, Optical, and SERS Characterizations. *Journal of Physical Chemistry C*, **2010**, 114, 8176-8183	3.8	131
152	Engineering a Well-Aligned Composition-Graded CuSi Nanorod Array by an Oblique Angle Codeposition Technique. *Crystal Growth and Design*, **2010**, 10, 4954-4958	3.5	29
151	Qualitative and quantitative determination of melamine by surface-enhanced Raman spectroscopy using silver nanorod array substrates. *Applied Spectroscopy*, **2010**, 64, 781-5	3.1	51
150	SERS-based viral fingerprinting: current capabilities and challenges **2010**,		1
149	Nanocarpet effect induced superhydrophobicity. *Langmuir*, **2010**, 26, 8245-50	4	31
148	Mg Nanostructures Tailored by Glancing Angle Deposition. *Crystal Growth and Design*, **2010**, 10, 440-448	3.5	18
147	Free standing aluminum nanostructures as anodes for Li-ion rechargeable batteries. *Journal of Power Sources*, **2010**, 195, 3333-3337	8.9	74
146	Effects of topography on the functional development of human neural progenitor cells. *Biotechnology and Bioengineering*, **2010**, 106, 649-59	4.9	14

145	The SERS response of semiordered Ag nanorod arrays fabricated by template oblique angle deposition. *Journal of Raman Spectroscopy*, **2010**, 41, 1112-1118	2.3	25
144	The role of differently distributed vanadium nanocatalyst in the hydrogen storage of magnesium nanostructures. *International Journal of Hydrogen Energy*, **2010**, 35, 4162-4170	6.7	20
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1 Catalytic Nanomotors141-159