Michael B Cortie

List of Publications by Year in Descending Order

213 papers	7,783 citations	41 h-index	82 g-index
229 ext. papers	8,611 ext. citations	5.8 avg, IF	6.39 L-index

#	Paper	IF	Citations
213	Ultra-small cobalt particles embedded in titania by ion beam synthesis: Additional datasets including electron microscopy, neutron reflectometry, modelling outputs and particle size analysis.. *Data in Brief*, **2022**, 40, 107674	1.2	
212	Thermosalience Revealed on the Atomic Scale: Rapid Synchrotron Techniques Uncover Molecular Motion Preceding Crystal Jumping. *Crystal Growth and Design*, **2022**, 22, 1951-1959	3.5	0
211	Spontaneous Emergence of Optically Polarizing Nanoscale Structures by Co-Deposition of Aluminum with Refractory Metals: Implications for High-Temperature Polarizers. *ACS Applied Nano Materials*, **2022**, 5, 4316-4324	5.6	
210	Beneficial Effect of Na 2 CO 3 Additions on the Thermoelectric Performance of Melt-Route Cu 2 Se. *Advanced Electronic Materials*, **2022**, 8, 2100802	6.4	0
209	Significant enhancement of electrical conductivity by incorporating carbon fiber into CoSb3 thermoelectric skutterudite fabricated by spark plasma sintering method. *Journal of Materials Science*, **2021**, 56, 20138	4.3	0
208	Brillouin imaging for studies of micromechanics in biology and biomedicine: from current state-of-the-art to future clinical translation. *JPhys Photonics*, **2021**, 3, 012002	2.5	7
207	Comparison of Single- and Mixed-Sized Gold Nanoparticles on Lateral Flow Assay for Albumin Detection. *Biosensors*, **2021**, 11,	5.9	3
206	Copper diffusion rates and hopping pathways in superionic Cu2Se. *Acta Materialia*, **2021**, 215, 117026	8.4	3
205	Structure and magnetism of ultra-small cobalt particles assembled at titania surfaces by ion beam synthesis. *Applied Surface Science*, **2021**, 570, 151068	6.7	2
204	Spectrally Selective Solar Absorbers based on Ta:SiO2 Cermets for Next-Generation Concentrated Solar Thermal Applications. *Energy Technology*, **2020**, 8, 2000125	3.5	7
203	The Quest for Zero Loss: Unconventional Materials for Plasmonics. *Advanced Materials*, **2020**, 32, e1904532	24	12
202	Grape juice: an effective liquid additive for significant enhancement of thermoelectric performance of Cu2Se. *Journal of Materials Chemistry A*, **2020**, 8, 16913-16919	13	5
201	Single and multiple detections of foodborne pathogens by gold nanoparticle assays. *Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology*, **2020**, 12, e1584	9.2	23
200	On the thermal decomposition of zinc hydroxide nitrate, Zn5(OH)8(NO3)2?2H2O. *Journal of Solid State Chemistry*, **2020**, 286, 121311	3.3	3
199	High temperature optically stable spectrally-selective Ti1-xAlxN-based multilayer coating for concentrated solar thermal applications. *Solar Energy Materials and Solar Cells*, **2019**, 200, 109964	6.4	17
198	Localized surface plasmons in platinum aluminide semi-shells. *Nano Futures*, **2019**, 3, 015003	3.6	1
197	Conversion of single crystals of a nickel(II) dithiocarbamate complex to nickel sulfide crystals. *Inorganica Chimica Acta*, **2019**, 487, 228-233	2.7	6

196	High temperature, low neutron cross-section high-entropy alloys in the Nb-Ti-V-Zr system. *Acta Materialia*, **2019**, 166, 435-446	8.4	33
195	Heat transfer from nanoparticles for targeted destruction of infectious organisms. *International Journal of Hyperthermia*, **2018**, 34, 157-167	3.7	17
194	From Lead(II) Dithiocarbamate Precursors to a Fast Response PbS Positive Temperature Coefficient Thermistor. *Inorganic Chemistry*, **2018**, 57, 2132-2140	5.1	16
193	Spontaneous growth of polarizing refractory metal 'nano-fins'. *Nanotechnology*, **2018**, 29, 105702	3.4	3
192	X-ray-induced reduction of a surfactant/polyoxotungstate hybrid compound. *Surface and Interface Analysis*, **2018**, 50, 1384-1388	1.5	4
191	Gold nanoparticles improve metabolic profile of mice fed a high-fat diet. *Journal of Nanobiotechnology*, **2018**, 16, 11	9.4	21
190	Design, control, and characterisation of switchable radiative cooling **2018**,		3
189	Ultra-high thermoelectric performance in graphene incorporated Cu2Se: Role of mismatching phonon modes. *Nano Energy*, **2018**, 53, 993-1002	17.1	93
188	Photomechanical photochromism in a cetyltrimethylammonium isopolytungstate.. *RSC Advances*, **2018**, 8, 18776-18783	3.7	5
187	On the Development of Optical Properties during Thermal Coarsening of Gold Nanoparticle Composites. *Journal of Physical Chemistry C*, **2018**, 122, 12098-12105	3.8	3
186	Optical properties and oxidation of β-phase Ag-Al thin films. *Nanotechnology*, **2017**, 28, 095202	3.4	9
185	Lithium-Sulfur Batteries: Fabrication of N-doped Graphene–Carbon Nanotube Hybrids from Prussian Blue for Lithium–Sulfur Batteries (Adv. Energy Mater. 8/2017). *Advanced Energy Materials*, **2017**, 7,	21.8	1
184	Prussian Blue Nanocubes with an Open Framework Structure Coated with PEDOT as High-Capacity Cathodes for Lithium-Sulfur Batteries. *Advanced Materials*, **2017**, 29, 1700587	24	133
183	Fabrication of N-doped Graphene–Carbon Nanotube Hybrids from Prussian Blue for Lithium–Sulfur Batteries. *Advanced Energy Materials*, **2017**, 7, 1602014	21.8	235
182	High Temperature Spectrally Selective Solar Absorbers Using Plasmonic AuAl2:AlN Nanoparticle Composites. *Solar Rrl*, **2017**, 1, 1700092	7.1	16
181	The importance of surface finish to energy performance. *Renewable Energy and Environmental Sustainability*, **2017**, 2, 13	2.5	3
180	Thermal stability of mesoscopic compounds of cetyltrimethylammonium and Keggin metatungstates. *Dalton Transactions*, **2017**, 46, 11053-11062	4.3	4
179	Predicting the formation and stability of single phase high-entropy alloys. *Acta Materialia*, **2016**, 104, 172-179	8.4	206

178	Higher Order Plasmonic Modes Excited in Ag Triangular Nanoplates by an Electron Beam. *Plasmonics*, **2016**, 11, 1081-1086	2.4	22
177	Optical in situ study of de-alloying kinetics in nanoporous gold sponges. *RSC Advances*, **2016**, 6, 85773-85778	3.7	5
176	Role of multipolar plasmon resonances during surface-enhanced Raman spectroscopy on Au micro-patches. *RSC Advances*, **2016**, 6, 115284-115289	3.7	2
175	Transformation of zinc hydroxide chloride monohydrate to crystalline zinc oxide. *Dalton Transactions*, **2016**, 45, 7385-90	4.3	40
174	Corrosion processes of triangular silver nanoparticles compared to bulk silver. *Journal of Nanoparticle Research*, **2016**, 18, 1	2.3	20
173	Effect of Al additions on the optical properties of Au □phase. *Journal of Alloys and Compounds*, **2016**, 679, 225-230	5.7	6
172	Surface enhanced Raman spectroscopy on metal nitride thin films. *Vibrational Spectroscopy*, **2016**, 85, 146-148	2.1	11
171	Nanophotonics-enabled smart windows, buildings and wearables. *Nanophotonics*, **2016**, 5, 55-73	6.3	29
170	Anomalously strong plasmon resonances in aluminium bronze by modification of the electronic density-of-states. *Journal of Physics Condensed Matter*, **2016**, 28, 405501	1.8	9
169	Optical properties and electronic structure of the Cu□n brasses. *Journal of Alloys and Compounds*, **2015**, 647, 129-135	5.7	14
168	Dielectric function and its predicted effect on localized plasmon resonances of equiatomic Au□u. *Journal Physics D: Applied Physics*, **2015**, 48, 215304	3	10
167	Plasmonic □op-hat□hano-star arrays by electron beam lithography. *Microelectronic Engineering*, **2015**, 139, 13-18	2.5	7
166	Multipolar and dark-mode plasmon resonances on drilled silver nano-triangles. *Optics Express*, **2015**, 23, 18002-13	3.3	25
165	Thin films of PtAl2 and AuAl2 by solid-state reactive synthesis. *Thin Solid Films*, **2015**, 589, 805-812	2.2	5
164	Seed-induced growth of flower-like Au-Ni-ZnO metal-semiconductor hybrid nanocrystals for photocatalytic applications. *Small*, **2015**, 11, 1460-9	11	50
163	Formation and structure of V□r amorphous alloy thin films. *Acta Materialia*, **2015**, 83, 269-275	8.4	18
162	Effect of Multimodal Plasmon Resonances on the Optical Properties of Five-Pointed Nanostars. *Nanomaterials and Nanotechnology*, **2015**, 5, 22	2.9	7
161	The effect of vacancies on the optical properties of AuAl□ *Journal of Physics Condensed Matter*, **2015**, 27, 505501	1.8	5

160	Thermal Stability of Nanoporous Raney Gold Catalyst. *Metals*, **2015**, 5, 1197-1211	2.3	8
159	Optical properties of arrays of five-pointed nanostars **2015**,		2
158	Optical properties of refractory TiN, AlN and (Ti,Al)N coatings **2015**,		1
157	On the formation of nanocrystalline active zinc oxide from zinc hydroxide carbonate. *Journal of Nanoparticle Research*, **2014**, 16, 1	2.3	9
156	Effect of precursor stoichiometry on the morphology of nanoporous platinum sponges. *ACS Applied Materials & Interfaces*, **2014**, 6, 9411-7	9.5	17
155	Magnetic metal phosphide nanorods as effective hydrogen-evolution electrocatalysts. *International Journal of Hydrogen Energy*, **2014**, 39, 18919-18928	6.7	56
154	Optical readout of the intracellular environment using nanoparticle transducers. *Trends in Biotechnology*, **2014**, 32, 571-577	15.1	10
153	Determination of martensite structures of the Au 7 Cu 5 Al 4 and Au 7 Cu 5.7 Al 3.3 shape-memory alloys. *Acta Materialia*, **2014**, 79, 234-240	8.4	7
152	Segregation and migration of species in the CrCoFeNi high entropy alloy. *Journal of Alloys and Compounds*, **2014**, 599, 179-182	5.7	90
151	First principles calculations of the optical and plasmonic response of Au alloys and intermetallic compounds. *Journal of Physics Condensed Matter*, **2014**, 26, 305501	1.8	16
150	Shape-Selective Formation of Monodisperse Copper Nanospheres and Nanocubes via Disproportionation Reaction Route and Their Optical Properties. *Journal of Physical Chemistry C*, **2014**, 118, 9801-9808	3.8	61
149	Charging of gold/metal oxide/gold nanocapacitors in a scanning electron microscope. *Nanotechnology*, **2014**, 25, 155703	3.4	1
148	Strategies to control the spectral properties of Au□Ni thin films. *Thin Solid Films*, **2014**, 551, 200-204	2.2	12
147	Plasmon Hybridization and Field Confinement in Multilayer Metal□Dielectric Nanocups. *Journal of Physical Chemistry C*, **2013**, 117, 15782-15789	3.8	14
146	Formation of Zinc Hydroxide Nitrate by H+-Catalyzed Dissolution-Precipitation. *European Journal of Inorganic Chemistry*, **2013**, 2013, 1326-1335	2.3	21
145	Zinc hydroxide sulphate and its transformation to crystalline zinc oxide. *Dalton Transactions*, **2013**, 42, 14432-7	4.3	49
144	AuAl2 and PtAl2 as potential plasmonic materials. *Journal of Alloys and Compounds*, **2013**, 577, 581-586	5.7	24
143	On the Coalescence of Nanoparticulate Gold Sinter Ink. *Journal of Physical Chemistry C*, **2013**, 117, 11377-11384	3.8	15

142	On the Reactivity of Zinc Hydroxide Acetate Dihydrate in Ethanol. *European Journal of Inorganic Chemistry*, **2013**, 2013, 5133-5137	2.3	9
141	Zinc hydroxyacetate and its transformation to nanocrystalline zinc oxide. *Inorganic Chemistry*, **2013**, 52, 95-102	5.1	49
140	In vivo study of spherical gold nanoparticles: inflammatory effects and distribution in mice. *PLoS ONE*, **2013**, 8, e58208	3.7	113
139	Nanomedical research in Australia and New Zealand. *Nanomedicine*, **2013**, 8, 1999-2006	5.6	2
138	Calorimetric Sensor for ${rm H}_{2}{rm O}_{2}/{rm H}_{2}{rm O}$ Mist Streams. *IEEE Sensors Journal*, **2012**, 12, 2392-2398	4	
137	Light splitting in nanoporous gold and silver. *ACS Nano*, **2012**, 6, 319-26	16.7	41
136	Formation of gold nanorods by a stochastic "popcorn" mechanism. *ACS Nano*, **2012**, 6, 1116-25	16.7	107
135	Interfacial reactions in white iron/steel composites. *Journal of Materials Processing Technology*, **2012**, 212, 2349-2357	5.3	10
134	Multimode resonances in silver nanocuboids. *Langmuir*, **2012**, 28, 9103-12	4	50
133	Plasmon Resonances in V-Shaped Gold Nanostructures. *Plasmonics*, **2012**, 7, 235-243	2.4	13
132	Zinc oxide particles: Synthesis, properties and applications. *Chemical Engineering Journal*, **2012**, 185-186, 1-22	14.7	439
131	Microstructural analysis of the interfacial development of white iron/steel composites.. *Microscopy and Microanalysis*, **2012**, 18, 1670-1671	0.5	
130	Aqueous pathways for the formation of zinc oxide nanoparticles. *Dalton Transactions*, **2011**, 40, 4871-8	4.3	59
129	High temperature transformations of the Au7Cu5Al4 shape-memory alloy. *Journal of Alloys and Compounds*, **2011**, 509, 3502-3508	5.7	19
128	The forthcoming applications of gold nanoparticles in drug and gene delivery systems. *Journal of Controlled Release*, **2011**, 149, 65-71	11.7	514
127	Synthesis and optical properties of hybrid and alloy plasmonic nanoparticles. *Chemical Reviews*, **2011**, 111, 3713-35	68.1	643
126	Thermal Stability of (KxNayH1−x−y)2Ti6O13 Nanofibers. *European Journal of Inorganic Chemistry*, **2011**, 2011, 5087-5095	2.3	2
125	Martensite destabilization in Au7Cu5Al4 shape-memory alloy. *Acta Materialia*, **2011**, 59, 2193-2200	8.4	8

124	The role of plasmons and interband transitions in the color of AuAl2, AuIn2, and AuGa2. *Applied Physics Letters*, **2011**, 99, 111908	3.4	24
123	Thin Films of AuCuAl Shape Memory Alloy for Use in Plasmonic Nano-actuators. *Materials Research Society Symposia Proceedings*, **2011**, 1295, 33		3
122	Visualization of vortex motion in FeAs-based BaFe1.9Ni0.1As2 single crystal by means of magneto-optical imaging. *Journal of Applied Physics*, **2011**, 109, 07E142	2.5	
121	Exploiting zinc oxide re-emission to fabricate periodic arrays. *ACS Applied Materials & Interfaces*, **2010**, 2, 1774-9	9.5	10
120	Optical properties and plasmon resonances of titanium nitride nanostructures. *Nanotechnology*, **2010**, 21, 115201	3.4	105
119	A Computational Exploration of the Color Gamut of Nanoscale Hollow Scalene Ellipsoids of Ag and Au. *Plasmonics*, **2010**, 5, 37-43	2.4	6
118	Spectrally selective coatings of gold nanorods on architectural glass. *Journal of Nanoparticle Research*, **2010**, 12, 2821-2830	2.3	17
117	Functionalised gold nanoparticles for controlling pathogenic bacteria. *Trends in Biotechnology*, **2010**, 28, 207-13	15.1	169
116	Sensors based on monochromatic interrogation of a localised surface plasmon resonance. *Sensors and Actuators B: Chemical*, **2010**, 148, 34-40	8.5	10
115	The aluminium-coppergold ternary system **2009**, 42, 201-208		19
114	Destruction and control of Toxoplasma gondii tachyzoites using gold nanosphere/antibody conjugates. *Small*, **2009**, 5, 1030-4	11	29
113	Plasmon resonance and electric field amplification of crossed gold nanorods. *Photonics and Nanostructures - Fundamentals and Applications*, **2009**, 7, 143-152	2.6	11
112	Ternary □and □phases in the Al□Au□Cu system at 750 □C. *Journal of Alloys and Compounds*, **2009**, 488, 100-107	5.7	13
111	The preparation of a plasmonically resonant VO2 thermochromic pigment. *Nanotechnology*, **2009**, 20, 085607	3.4	19
110	Rapid and Controllable Sintering of Gold Nanoparticle Inks at Room Temperature Using a Chemical Agent. *Journal of Physical Chemistry C*, **2009**, 113, 1325-1328	3.8	58
109	The versatile colour gamut of coatings of plasmonic metal nanoparticles. *Physical Chemistry Chemical Physics*, **2009**, 11, 5897-902	3.6	9
108	Nanotechnological Applications of Gold **2009**, 369-397		4
107	Prospects for gold nanorod particles in diagnostic and therapeutic applications. *Biotechnology and Genetic Engineering Reviews*, **2008**, 25, 93-112	4.1	83

106	The effect of stretching thiyl- and ethynyl-Au molecular junctions. *Journal of Physics Condensed Matter*, **2008**, 20, 025207	1.8	13
105	Rectification in donor-acceptor molecular junctions. *Journal of Physics Condensed Matter*, **2008**, 20, 374106	1.8	22
104	Synthesis of hollow gold nanoparticles and rings using silver templates **2008**,		2
103	Nanocapacitive circuit elements. *ACS Nano*, **2008**, 2, 1615-9	16.7	7
102	Percolation in nanoporous gold and the principle of universality for two-dimensional to hyperdimensional networks. *Physical Review B*, **2008**, 78,	3.3	25
101	Purple glory - The optical properties and technology of AuAl2 coatings **2008**, 41, 296-304		35
100	Tunable infrared absorption by metal nanoparticles: The case for gold rods and shells **2008**, 41, 5-14		53
99	Mie and Bragg plasmons in subwavelength silver semi-shells. *Small*, **2008**, 4, 2292-9	11	65
98	Mapping surface plasmons at the nanometre scale with an electron beam. *Nanotechnology*, **2007**, 18, 165505	3.4	240
97	Exploring the performance of molecular rectifiers: limitations and factors affecting molecular rectification. *Nano Letters*, **2007**, 7, 3018-22	11.5	30
96	A golden bullet? Selective targeting of Toxoplasma gondii tachyzoites using antibody-functionalized gold nanorods. *Nano Letters*, **2007**, 7, 3808-12	11.5	143
95	Laser-induced assembly of gold nanoparticles into colloidal crystals. *Nanotechnology*, **2007**, 18, 365301	3.4	10
94	A plasmon-induced current loop in gold semi-shells. *Nanotechnology*, **2007**, 18, 235704	3.4	79
93	Active control of the optical properties of nanoscale coatings using 'smart' nanoparticles **2007**,		2
92	Precious Metal Core-Shell Spindles. *Journal of Physical Chemistry C*, **2007**, 111, 18135-18142	3.8	19
91	Thermal stresses and cracking in absorptive solar glazing. *Construction and Building Materials*, **2007**, 21, 464-468	6.7	10
90	Optical properties of suspensions of gold half-shells. *Materials Science and Engineering B: Solid-State Materials for Advanced Technology*, **2007**, 140, 195-198	3.1	7
89	Mesoporous gold sponge as a prototype metamaterial. *Physica B: Condensed Matter*, **2007**, 394, 167-170	2.8	9

88	Plasmon absorption in nanospheres: A comparison of sodium, potassium, aluminium, silver and gold. *Physica B: Condensed Matter*, **2007**, 394, 184-187	2.8	92
87	Mesoporous gold electrodes for sensors based on electrochemical double layer capacitance. *Sensors and Actuators B: Chemical*, **2007**, 123, 262-268	8.5	37
86	In situ organization of gold nanorods on mixed self-assembled-monolayer substrates. *Small*, **2007**, 3, 139-45	11	29
85	Gold nanosphere-antibody conjugates for hyperthermal therapeutic applications **2007**, 40, 121-129		49
84	Preparation of nanoscale gold structures by nanolithography **2007**, 40, 310-320		22
83	Targeted destruction of murine macrophage cells with bioconjugated gold nanorods. *Journal of Nanoparticle Research*, **2007**, 9, 1109-1124	2.3	114
82	Plasmonic heating and its possible exploitation in nanolithography. *Physica B: Condensed Matter*, **2007**, 394, 188-192	2.8	21
81	Electron tunneling in the presence of adsorbed molecules. *Surface Science*, **2007**, 601, 5715-5720	1.8	1
80	Stability of the tetrahedral motif for small gold clusters in the size range 16–24 atoms. *Materials Science and Engineering B: Solid-State Materials for Advanced Technology*, **2007**, 140, 177-181	3.1	3
79	Ab initioand empirical studies on the asymmetry of molecular current–voltage characteristics. *Journal of Physics Condensed Matter*, **2007**, 19, 215206	1.8	11
78	The effect of reciprocal-space sampling and basis set quality on the calculated conductance of a molecular junction. *Molecular Simulation*, **2007**, 33, 897-904	2	7
77	Nanoporous plasmonic coatings **2007**, 6647, 66		
76	Optical and electrical switching in nanostructured coatings of VO 2 **2007**,		1
75	Prospects for light-activated nano-devices based on shape-memory polymers. *Journal of Nanophotonics*, **2007**, 1, 012503	1.1	1
74	Mesoporous Gold Sponge. *Australian Journal of Chemistry*, **2007**, 60, 524	1.2	10
73	Core-shell nanoparticles with self-regulating plasmonic functionality. *Physical Review B*, **2007**, 75,	3.3	28
72	Adsorption of Amine Compounds on the Au(111) Surface: A Density Functional Study. *Journal of Physical Chemistry C*, **2007**, 111, 13886-13891	3.8	115
71	Bulk and surface plasmons in highly nanoporous gold films. *Journal Physics D: Applied Physics*, **2007**, 40, 5675-5682	3	55

70	Spectrally-selective gold nanorod coatings for window glass **2006**, 39, 156-165		32
69	Gold 2006 Highlights of 4th International Conference on the Science, Technology and Industrial Applications of Gold **2006**, 39, 226-235		10
68	Fracture mechanics of mollusc shells. *Physica B: Condensed Matter*, **2006**, 385-386, 545-547	2.8	5
67	Nanoscale coatings of AuAlx and PtAlx and their mesoporous elemental derivatives. *Current Applied Physics*, **2006**, 6, 440-443	2.6	19
66	Therapeutic possibilities of plasmonically heated gold nanoparticles. *Trends in Biotechnology*, **2006**, 24, 62-7	15.1	503
65	Anisotropic Optical Properties of Semitransparent Coatings of Gold Nanocaps. *Advanced Functional Materials*, **2006**, 16, 1457-1461	15.6	40
64	Shape Change and Color Gamut in Gold Nanorods, Dumbbells, and Dog Bones. *Advanced Functional Materials*, **2006**, 16, 2170-2176	15.6	114
63	Functional Metamaterials Based on Mesoscale Gold Sponges, Particulate Aggregates, and Their Composites with Dielectric Materials. *Materials Research Society Symposia Proceedings*, **2006**, 964, 1		
62	Control of Plasmon Resonance in Coatings of Gold Nanorods **2006**,		1
61	Effect of dipole moment on current-voltage characteristics of single molecules **2006**,		1
60	Applications of Nano- and Mesoporous Gold in Electrodes and Electrochemical Sensors **2006**,		1
59	Effect of composition and packing configuration on the dichroic optical properties of coinage metal nanorods. *Physical Chemistry Chemical Physics*, **2006**, 8, 3520-7	3.6	37
58	Optimization of plasmonic heating by gold nanospheres and nanoshells. *Journal of Physical Chemistry B*, **2006**, 110, 10701-7	3.4	127
57	THE APPLICATION OF GOLD SURFACES AND PARTICLES IN NANOTECHNOLOGY. *Surface Review and Letters*, **2006**, 13, 297-307	1.1	28
56	Controlled Assembly of 1,4-Phenylenedimethanethiol Molecular Nanostructures. *Chemistry of Materials*, **2006**, 18, 2376-2380	9.6	13
55	Melting in small gold clusters: a density functional molecular dynamics study. *Journal of Physics Condensed Matter*, **2006**, 18, 55-74	1.8	35
54	Tuning plasma frequency for improved solar control glazing using mesoporous nanostructures **2006**, 6197, 196		1
53	Prediction of increased tunneling current by bond length stretch in molecular break junctions. *Chemical Physics Letters*, **2006**, 429, 503-506	2.5	13

52	Radiative Heat Transfer Across Glass Coated With Gold Nano-Particles. *Journal of Solar Energy Engineering, Transactions of the ASME*, **2005**, 127, 70-75	2.3	17
51	Conduction, storage, and leakage in particle-on-SAM nanocapacitors. *IEEE Nanotechnology Magazine*, **2005**, 4, 406-414	2.6	9
50	Investigation of the optical properties of hollow aluminium nano-caps *Nanotechnology*, **2005**, 16, 3023-3028	3.4	30
49	Plasmonic heating of gold nanoparticles and its exploitation **2005**,		15
48	Optical properties and applications to production of plasmonic thin film nanostructures of self-ordered columnar alumina arrays on glass **2005**,		1
47	Dipole-dipole plasmon interactions in gold-on-polystyrene composites. *Journal of Physical Chemistry B*, **2005**, 109, 21516-20	3.4	73
46	Effect of glass pre-treatment on the nucleation of semi-transparent gold coatings. *Materials Chemistry and Physics*, **2005**, 94, 266-274	4.4	12
45	Fabrication of Hollow Metal Nanocaps and Their Red-Shifted Optical Absorption Spectra. *Advanced Materials*, **2005**, 17, 1276-1281	24	108
44	Electrochemical capacitance of mesoporous gold **2005**, 38, 14-22		66
43	The effect of surface symmetry on the adsorption energetics of SCH3 on gold surfaces studied using Density Functional Theory. *Surface Science*, **2005**, 580, 19-29	1.8	35
42	Optical properties of mesoporous gold films. *Journal of Optics*, **2005**, 7, 303-309		32
41	Optical response of nanostructured metal/dielectric composites and multilayers **2004**, 5508, 192		2
40	The weird world of nanoscale gold **2004**, 37, 12-19		65
39	Revised Phase Diagram for the Pt Ti System from 30 to 60 at.% Platinum.. *ChemInform*, **2004**, 35, no		1
38	Low energy structures of gold nanoclusters in the size range 3 8 atoms. *Computational and Theoretical Chemistry*, **2004**, 686, 193-205		57
37	Design of nanocapacitors and associated materials challenges. *Current Applied Physics*, **2004**, 4, 250-254	2.6	6
36	In Situ Precipitation of Gold Nanoparticles onto Glass for Potential Architectural Applications. *Chemistry of Materials*, **2004**, 16, 2259-2266	9.6	94
35	Revised phase diagram for the Pt Ti system from 30 to 60 at.% platinum. *Journal of Alloys and Compounds*, **2004**, 375, 120-127	5.7	30

34	Conference Report: Nano Tech + Future 2003 Chiba, Japan, February 03 **2003**, 36, 59-62		1
33	Determination of the 76 wt.% Au section of the AlAuCu phase diagram. *Journal of Alloys and Compounds*, **2003**, 354, 171-180	5.7	15
32	Hardness and colour trends along the 76 wt.% Au (18.2 carat) line of the AuCuAl system. *Scripta Materialia*, **2002**, 47, 95-100	5.6	21
31	A 500 °C isothermal section for the Al-Au-Cu system. *Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science*, **2002**, 33, 987-993	2.3	20
30	Formation, modulation and adaptive twinning of martensite in the Au7Cu5Al4 shape memory system. *Intermetallics*, **2002**, 10, 23-31	3.5	15
29	Martensitic transformations, microstructure, and mechanical workability of TiPt. *Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science*, **2001**, 32, 1881-1886	2.3	29
28	Body-centred tetragonal martensite formed from Au7Cu5Al4 β phase. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2001**, 303, 1-10	5.3	25
27	Displacive transformations in Au-18 wt pct Cu-6 wt pct Al. *Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science*, **2000**, 31, 1917-1923	2.3	27
26	Structure and ordering of the 18-carat AlAuCu β phase. *Intermetallics*, **2000**, 8, 793-804	3.5	26
25	A 23 carat alloy with a colourful sparkle **1998**, 31, 75-82		7
24	An investigation of the B2 phase between AlRu and AlNi in the AlNiRu ternary system. *Journal of Alloys and Compounds*, **1998**, 264, 173-179	5.7	32
23	Hot isostatic consolidation and transformation of sigma phase powders. *Materials Science and Technology*, **1998**, 14, 1242-1248	1.5	1
22	Simulation of the precipitation of sigma phase in duplex stainless steels. *Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science*, **1997**, 28, 2477-2484	2.3	32
21	Retardation of intermetallic phase formation in experimental superferritic stainless steels. *Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science*, **1996**, 27, 2436-2444	2.3	17
20	Embrittlement and aging at 475 °C in an experimental ferritic stainless steel containing 38 wt.% chromium. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **1995**, 199, 153-163	5.3	59
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