

# Masaharu Tsuji

## List of Publications by Citations

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201  
papers

8,039  
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50  
h-index

83  
g-index

209  
ext. papers

8,566  
ext. citations

4.6  
avg, IF

5.79  
L-index

#	Paper	IF	Citations
201	Microwave-assisted synthesis of metallic nanostructures in solution. <i>Chemistry - A European Journal</i> , <b>2005</b> , 11, 440-52	4.8	596
200	Preparation of silver nanoparticles by laser ablation in solution: influence of laser wavelength on particle size. <i>Applied Surface Science</i> , <b>2002</b> , 202, 80-85	6.7	355
199	Epitaxial chemical vapor deposition growth of single-layer graphene over cobalt film crystallized on sapphire. <i>ACS Nano</i> , <b>2010</b> , 4, 7407-14	16.7	247
198	Epitaxial growth of large-area single-layer graphene over Cu(1 1 1)/sapphire by atmospheric pressure CVD. <i>Carbon</i> , <b>2012</b> , 50, 57-65	10.4	218
197	Preparation of silver nanoparticles by laser ablation in polyvinylpyrrolidone solutions. <i>Applied Surface Science</i> , <b>2008</b> , 254, 5224-5230	6.7	192
196	Domain Structure and Boundary in Single-Layer Graphene Grown on Cu(111) and Cu(100) Films. <i>Journal of Physical Chemistry Letters</i> , <b>2012</b> , 3, 219-226	6.4	186
195	Crystal Structures and Growth Mechanisms of [email protected] CoreShell Nanoparticles Prepared by the MicrowavePolyol Method. <i>Crystal Growth and Design</i> , <b>2006</b> , 6, 1801-1807	3.5	185
194	Preparation of nano-size particles of silver with femtosecond laser ablation in water. <i>Applied Surface Science</i> , <b>2003</b> , 206, 314-320	6.7	184
193	Aligned growth of isolated single-walled carbon nanotubes programmed by atomic arrangement of substrate surface. <i>Chemical Physics Letters</i> , <b>2005</b> , 408, 433-438	2.5	143
192	Preparation of metal colloids by a laser ablation technique in solution: influence of laser wavelength on the ablation efficiency (II). <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , <b>2001</b> , 145, 201-207	4.7	136
191	Fast preparation of PtRu catalysts supported on carbon nanofibers by the microwave-polyol method and their application to fuel cells. <i>Langmuir</i> , <b>2007</b> , 23, 387-90	4	124
190	CVD growth of single-walled carbon nanotubes with narrow diameter distribution over Fe/MgO catalyst and their fluorescence spectroscopy. <i>Journal of Physical Chemistry B</i> , <b>2005</b> , 109, 10035-41	3.4	121
189	Catalytic Growth of Graphene: Toward Large-Area Single-Crystalline Graphene. <i>Journal of Physical Chemistry Letters</i> , <b>2012</b> , 3, 2228-36	6.4	120
188	Gas analysis of the CVD process for high yield growth of carbon nanotubes over metal-supported catalysts. <i>Carbon</i> , <b>2006</b> , 44, 2912-2918	10.4	118
187	Shape-Dependent Evolution of [email protected] CoreShell Nanocrystals by PVP-Assisted N,N-Dimethylformamide Reduction. <i>Crystal Growth and Design</i> , <b>2008</b> , 8, 2528-2536	3.5	116
186	Preparation of Gold Nanoplates by a Microwave-polyol Method. <i>Chemistry Letters</i> , <b>2003</b> , 32, 1114-1115	1.7	113
185	Poly(N-vinyl-2-pyrrolidone) (PVP)-capped dendritic gold nanoparticles by a one-step hydrothermal route and their high SERS effect. <i>Langmuir</i> , <b>2008</b> , 24, 1763-8	4	112

184	Controlled van der Waals epitaxy of monolayer MoS <sub>2</sub> triangular domains on graphene. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 5265-73	9.5	106
183	Laser ablation of cobalt and cobalt oxides in liquids: influence of solvent on composition of prepared nanoparticles. <i>Applied Surface Science</i> , <b>2005</b> , 243, 214-219	6.7	105
182	Formation of hydrogen-capped polyynes by laser ablation of graphite particles suspended in solution. <i>Chemical Physics Letters</i> , <b>2002</b> , 355, 101-108	2.5	102
181	Roles of Metal-Support Interaction in Growth of Single- and Double-Walled Carbon Nanotubes Studied with Diameter-Controlled Iron Particles Supported on MgO. <i>Journal of Physical Chemistry B</i> , <b>2004</b> , 108, 18908-18915	3.4	100
180	Rapid transformation from spherical nanoparticles, nanorods, cubes, or bipyramids to triangular prisms of silver with PVP, citrate, and H <sub>2</sub> O <sub>2</sub> . <i>Langmuir</i> , <b>2012</b> , 28, 8845-61	4	99
179	Nanosecond Time-Resolved Observations of Laser Ablation of Silver in Water. <i>Japanese Journal of Applied Physics</i> , <b>2007</b> , 46, 1533-1535	1.4	97
178	Microsecond-resolved imaging of laser ablation at solid-liquid interface: investigation of formation process of nano-size metal colloids. <i>Applied Surface Science</i> , <b>2004</b> , 229, 365-371	6.7	95
177	Laser induced morphology change of silver colloids: formation of nano-size wires. <i>Applied Surface Science</i> , <b>2003</b> , 211, 189-193	6.7	93
176	Stepwise Growth of Decahedral and Icosahedral Silver Nanocrystals in DMF. <i>Crystal Growth and Design</i> , <b>2010</b> , 10, 296-301	3.5	85
175	Syntheses of Ag/Cu alloy and Ag/Cu alloy core Cu shell nanoparticles using a polyol method. <i>CrystEngComm</i> , <b>2010</b> , 12, 3900	3.3	83
174	Rapid Preparation of Silver Nanorods and Nanowires by a Microwave-Polyol Method in the Presence of Pt Catalyst and Polyvinylpyrrolidone. <i>Crystal Growth and Design</i> , <b>2007</b> , 7, 311-320	3.5	83
173	Large-scale synthesis of NbS <sub>2</sub> nanosheets with controlled orientation on graphene by ambient pressure CVD. <i>Nanoscale</i> , <b>2013</b> , 5, 5773-8	7.7	82
172	Rapid synthesis of silver nanostructures by using microwave-polyol method with the assistance of Pt seeds and polyvinylpyrrolidone. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2007</b> , 293, 185-194	5.1	80
171	Roles of Pt seeds and chloride anions in the preparation of silver nanorods and nanowires by microwave-polyol method. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2008</b> , 316, 266-277	5.1	80
170	Influence of Cu metal on the domain structure and carrier mobility in single-layer graphene. <i>Carbon</i> , <b>2012</b> , 50, 2189-2196	10.4	78
169	Epitaxial Growth of Au@Cu Core-Shell Nanocrystals Prepared Using the PVP-Assisted Polyol Reduction Method. <i>Crystal Growth and Design</i> , <b>2010</b> , 10, 5129-5135	3.5	77
168	Rapid and high-yield synthesis of silver nanowires using air-assisted polyol method with chloride ions. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2009</b> , 338, 33-39	5.1	77
167	Growth of double-wall carbon nanotubes with diameter-controlled iron oxide nanoparticles supported on MgO. <i>Chemical Physics Letters</i> , <b>2004</b> , 391, 308-313	2.5	76

166	Highly Uniform Bilayer Graphene on Epitaxial CuNi(111) Alloy. <i>Chemistry of Materials</i> , <b>2016</b> , 28, 4583-4592	26	75
165	Synthesis of large area, homogeneous, single layer graphene films by annealing amorphous carbon on Co and Ni. <i>Nano Research</i> , <b>2011</b> , 4, 531-540	10	73
164	Epitaxial Growth of [email-protected] CoreShell Nanocrystals Prepared Using a Two-Step Reduction Method. <i>Crystal Growth and Design</i> , <b>2011</b> , 11, 1995-2005	3.5	71
163	Effects of chain length of polyvinylpyrrolidone for the synthesis of silver nanostructures by a microwave-polyol method. <i>Materials Letters</i> , <b>2006</b> , 60, 834-838	3.3	71
162	Formation of hydrogen-capped polyynes by laser ablation of C60 particles suspended in solution. <i>Carbon</i> , <b>2003</b> , 41, 2141-2148	10.4	70
161	Preparation of Cu@Ag CoreShell Nanoparticles Using a Two-step Polyol Process under Bubbling of N2Gas. <i>Chemistry Letters</i> , <b>2009</b> , 38, 518-519	1.7	67
160	Epitaxial Growth and Electronic Properties of Large Hexagonal Graphene Domains on Cu(111) Thin Film. <i>Applied Physics Express</i> , <b>2013</b> , 6, 075101	2.4	65
159	Preparation and investigation of the formation mechanism of submicron-sized spherical particles of gold using laser ablation and laser irradiation in liquids. <i>Physical Chemistry Chemical Physics</i> , <b>2013</b> , 15, 3099-107	3.6	62
158	Efficient hydrogen production from formic acid using TiO2-supported AgPd@Pd nanocatalysts. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 4453-4461	13	61
157	Synthesis of horizontally-aligned single-walled carbon nanotubes with controllable density on sapphire surface and polarized Raman spectroscopy. <i>Chemical Physics Letters</i> , <b>2006</b> , 421, 399-403	2.5	56
156	Shape and size controlled synthesis of gold nanocrystals using oxidative etching by AuCl4 <sup>-</sup> and Cl <sup>-</sup> anions in microwave-polyol process. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2007</b> , 302, 587-598	5.1	53
155	Visualization of Grain Structure and Boundaries of Polycrystalline Graphene and Two-Dimensional Materials by Epitaxial Growth of Transition Metal Dichalcogenides. <i>ACS Nano</i> , <b>2016</b> , 10, 3233-40	16.7	52
154	Competition and cooperation between lattice-oriented growth and step-templated growth of aligned carbon nanotubes on sapphire. <i>Applied Physics Letters</i> , <b>2007</b> , 90, 123112	3.4	52
153	Chemistry of Water-Assisted Carbon Nanotube Growth over FeMo/MgO Catalyst. <i>Journal of Physical Chemistry C</i> , <b>2007</b> , 111, 11577-11582	3.8	51
152	Growth Dynamics of Single-Layer Graphene on Epitaxial Cu Surfaces. <i>Chemistry of Materials</i> , <b>2015</b> , 27, 5377-5385	9.6	50
151	Syntheses of Silver Nanofilms, Nanorods, and Nanowires by a Microwave-polyol Method in the Presence of Pt Seeds and Polyvinylpyrrolidone. <i>Chemistry Letters</i> , <b>2004</b> , 33, 370-371	1.7	50
150	Mechanical Strain of Chemically Functionalized Chemical Vapor Deposition Grown Graphene. <i>Journal of Physical Chemistry C</i> , <b>2013</b> , 117, 3152-3159	3.8	45
149	Synthesis and growth mechanism of pentagonal bipyramid-shaped gold-rich Au/Ag alloy nanoparticles. <i>Langmuir</i> , <b>2007</b> , 23, 6372-6	4	45

148	Shape Evolution of Octahedral and Triangular Platelike Silver Nanocrystals from Cubic and Right Bipyramidal Seeds in DMF. <i>Crystal Growth and Design</i> , <b>2009</b> , 9, 4700-4705	3.5	44
147	Toward to branched platinum nanoparticles by polyol reduction: A role of poly(vinylpyrrolidone) molecules. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2008</b> , 317, 23-31	5.1	44
146	Structure and transport properties of the interface between CVD-grown graphene domains. <i>Nanoscale</i> , <b>2014</b> , 6, 7288-94	7.7	42
145	Laser-induced morphology changes of silver colloids prepared by laser ablation in water: Enhancement of anisotropic shape conversions by chloride ions. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , <b>2006</b> , 183, 297-303	4.7	41
144	Thermal energy charge transfer reactions: He+2 with N2 and CO. <i>Journal of Chemical Physics</i> , <b>1983</b> , 79, 5368-5375	3.9	40
143	Crystal Structures and Growth Mechanisms of Icosahedral Au@Ag Core-shell and Au/Ag Twin Nanocrystals Prepared by PVP-Assisted N,N-Dimethylformamide Reduction. <i>Crystal Growth and Design</i> , <b>2010</b> , 10, 4085-4090	3.5	39
142	Role of chloride ions in the formation of Au@Ag core-shell nanocrystal structures by using a microwave-polyol method. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2008</b> , 317, 247-255	5.1	39
141	Gate-Tunable Dirac Point of Molecular Doped Graphene. <i>ACS Nano</i> , <b>2016</b> , 10, 2930-9	16.7	38
140	Self-Assembly of Polar Phthalocyanine Molecules on Graphene Grown by Chemical Vapor Deposition. <i>Journal of Physical Chemistry C</i> , <b>2013</b> , 117, 21849-21855	3.8	38
139	Synthesis of Ag@Cu Core-shell Nanoparticles in High Yield Using a Polyol Method. <i>Chemistry Letters</i> , <b>2010</b> , 39, 334-336	1.7	35
138	Ultrahigh-Vacuum-Assisted Control of Metal Nanoparticles for Horizontally Aligned Single-Walled Carbon Nanotubes with Extraordinary Uniform Diameters. <i>Journal of Physical Chemistry C</i> , <b>2011</b> , 115, 13247-13253	3.8	33
137	Patterned growth of graphene over epitaxial catalyst. <i>Small</i> , <b>2010</b> , 6, 1226-33	11	33
136	Laser-induced Structural Conversions of Silver Nanoparticles in Pure Water [Influence of Laser Intensity] <i>Chemistry Letters</i> , <b>2005</b> , 34, 476-477	1.7	32
135	AgPd@Pd/TiO2 nanocatalyst synthesis by microwave heating in aqueous solution for efficient hydrogen production from formic acid. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 10666-10670	13	31
134	Dense arrays of highly aligned graphene nanoribbons produced by substrate-controlled metal-assisted etching of graphene. <i>Advanced Materials</i> , <b>2013</b> , 25, 6562-8	24	31
133	Rapid synthesis of Ag@Ni core-shell nanoparticles using a microwave-polyol method. <i>Materials Letters</i> , <b>2010</b> , 64, 1793-1797	3.3	30
132	Rapid Formation of Novel Au Core-Ag Shell Nanostructures by a Microwave-polyol Method. <i>Chemistry Letters</i> , <b>2005</b> , 34, 1518-1519	1.7	30
131	Epitaxial growth of Au@Pd core-shell nanocrystals prepared using a PVP-assisted polyol reduction method. <i>CrystEngComm</i> , <b>2012</b> , 14, 3411	3.3	29

- 130 Shape Evolution of Flag Types of Silver Nanostructures from Nanorod Seeds in PVP-Assisted DMF Solution. *Crystal Growth and Design*, **2010**, 10, 5238-5243 3.5 29
- 129 Laser-induced silver nanocrystal formation in polyvinylpyrrolidone solutions. *Journal of Photochemistry and Photobiology A: Chemistry*, **2009**, 206, 134-139 4.7 29
- 128 Synthesis of Bicompartamental Ag/Cu Nanoparticles Using a Two-step Polyol Process. *Chemistry Letters*, **2009**, 38, 860-861 1.7 29
- 127 Roles of Chloride Anions in the Shape Evolution of Anisotropic Silver Nanostructures in Poly(vinylpyrrolidone) (PVP)-Assisted Polyol Process. *Bulletin of the Chemical Society of Japan*, **2009**, 82, 1304-1312 5.1 28
- 126 Spin-orbit state selectivity in KrF\* and XeF\* formation from ion-recombination reactions of Kr+(2P<sub>3/2</sub>, 1/2) and Xe+(2P<sub>3/2</sub>, 1/2) with SF<sub>6</sub> in the flowing afterglow. *Journal of Chemical Physics*, **1990**, 92, 6502-6503 3.9 28
- 125 Microwave-Assisted Synthesis of Metallic Nanomaterials in Liquid Phase. *ChemistrySelect*, **2017**, 2, 805-818 27
- 124 Synthesis of Ag<sub>2</sub>Au and Ag<sub>2</sub>Pd alloy triangular hollow nanoframes by galvanic replacement reactions without and with post-treatment using NaCl in an aqueous solution. *CrystEngComm*, **2014**, 16, 2684 3.3 27
- 123 Lattice-oriented catalytic growth of graphene nanoribbons on heteroepitaxial nickel films. *ACS Nano*, **2013**, 7, 10825-33 16.7 27
- 122 Photo-induced morphological conversions of silver nanoparticles prepared using laser ablation in water-enhanced morphological conversions using halogen etching. *Journal of Photochemistry and Photobiology A: Chemistry*, **2008**, 194, 247-253 4.7 27
- 121 Fast Preparation of Nano-sized Nickel Particles under Microwave Irradiation without Using Catalyst for Nucleation. *Chemistry Letters*, **2002**, 31, 1232-1233 1.7 27
- 120 Epitaxial chemical vapour deposition growth of monolayer hexagonal boron nitride on a Cu(111)/sapphire substrate. *Physical Chemistry Chemical Physics*, **2017**, 19, 8230-8235 3.6 26
- 119 Visualization of Horizontally-Aligned Single-Walled Carbon Nanotube Growth with <sup>13</sup>C/<sup>12</sup>C Isotopes. *Journal of Physical Chemistry C*, **2008**, 112, 1735-1738 3.8 26
- 118 Increased chemical reactivity achieved by asymmetrical Janus-functionalisation of graphene. *RSC Advances*, **2014**, 4, 52215-52219 3.7 25
- 117 Formation of CH(A 2[B 2[C 2[D]) by electron-ion recombination processes in the argon and krypton afterglow reactions of CH<sub>4</sub>. *Journal of Chemical Physics*, **1991**, 94, 1127-1133 3.9 25
- 116 Utilization of laser ablation in aqueous solution for observation of photoinduced shape conversion of silver nanoparticles in citrate solutions. *Journal of Photochemistry and Photobiology A: Chemistry*, **2011**, 221, 224-231 4.7 24
- 115 Synthesis of Pt-Ag alloy triangular nanoframes by galvanic replacement reactions followed by saturated NaCl treatment in an aqueous solution. *Materials Letters*, **2014**, 121, 113-117 3.3 23
- 114 Nascent vibrational and rotational distributions of NH(A 3[ c 1]) in the dissociative excitation of NH<sub>3</sub> by Ar(3P<sub>2</sub>, 0) at thermal energy. *Journal of Chemical Physics*, **1987**, 86, 163-169 3.9 23
- 113 Near-Infrared photoluminescence in the femtosecond time region in monolayer graphene on SiO<sub>2</sub> *ACS Nano*, **2013**, 7, 2335-43 16.7 22

112	Preparation of Nanoparticles of LiCoO <sub>2</sub> Using Laser Ablation in Liquids. <i>Chemistry Letters</i> , <b>2004</b> , 33, 1136-1137	22
111	Crystal structures and growth mechanisms of octahedral and decahedral Au@Ag core-shell nanocrystals prepared by a two-step reduction method. <i>CrystEngComm</i> , <b>2012</b> , 14, 7639	3-3 21
110	Combinatorial catalyst approach for high-density growth of horizontally aligned single-walled carbon nanotubes on sapphire. <i>Carbon</i> , <b>2011</b> , 49, 176-186	10.4 21
109	Shape Selective Oxidative Etching and Growth of Single-Twin Plate-Like and Multiple-Twin Decahedral and Icosahedral Gold Nanocrystals in the Presence of Au Seeds under Microwave Heating. <i>Bulletin of the Chemical Society of Japan</i> , <b>2007</b> , 80, 2024-2038	5.1 20
108	Synthesis and growth mechanism of Au@Cu core-shell nanorods having excellent antioxidative properties. <i>CrystEngComm</i> , <b>2014</b> , 16, 5672	3-3 19
107	Synthesis of Au@Ag@Cu trimetallic nanocrystals using three-step reduction. <i>CrystEngComm</i> , <b>2013</b> , 15, 1345	3-3 19
106	Step-templated CVD growth of aligned graphene nanoribbons supported by a single-layer graphene film. <i>Nanoscale</i> , <b>2012</b> , 4, 5178-82	7.7 19
105	The Role of Adsorption Species in the Formation of Ag Nanostructures by a Microwave-Polyol Route. <i>Bulletin of the Chemical Society of Japan</i> , <b>2008</b> , 81, 393-400	5.1 19
104	Optical study of the He <sup>++</sup> N <sub>2</sub> charge transfer reaction in a flowing afterglow and in a low-pressure chamber coupled with flowing afterglow. <i>Journal of Chemical Physics</i> , <b>1987</b> , 87, 325-330	3.9 19
103	Enhancement of catalytic activity of AgPd@Pd/TiO <sub>2</sub> nanoparticles under UV and visible photoirradiation. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 14649-14656	13 18
102	Top-down approach to align single-walled carbon nanotubes on silicon substrate. <i>Applied Physics Letters</i> , <b>2009</b> , 94, 053113	3.4 18
101	Decomposition of N <sub>2</sub> O in a microwave-absorbent assisted discharge of N <sub>2</sub> at atmospheric pressure. <i>Applied Surface Science</i> , <b>2003</b> , 217, 134-148	6.7 18
100	The SiH <sup>+</sup> (A 1 <sub>1</sub> ) emission produced from the thermal energy reaction of He <sup>+</sup> with SiH <sub>4</sub> under single collision conditions. <i>Journal of Chemical Physics</i> , <b>1987</b> , 86, 4952-4956	3.9 18
99	Dissociative excitation of CF <sub>4</sub> , CCl <sub>4</sub> , and chlorofluoromethanes by collisions with argon and helium active species. <i>Journal of Chemical Physics</i> , <b>1992</b> , 97, 245-255	3.9 17
98	Vibrational distributions of CN(X 2 <sub>+</sub> ) resulting from the C(3P)+NO and C(3P)+N <sub>2</sub> O reactions at 300 K. <i>Journal of Chemical Physics</i> , <b>1986</b> , 84, 3739-3744	3.9 17
97	Synthesis of Au core Au/Ag alloy shell nanoparticles using branched Au nanoparticles as seeds. <i>CrystEngComm</i> , <b>2011</b> , 13, 72-76	3-3 16
96	Preparation of LiMn <sub>2</sub> O <sub>4</sub> nanoparticles for Li ion secondary batteries by laser ablation in water. <i>Materials Letters</i> , <b>2007</b> , 61, 2062-2065	3-3 16
95	Dissociative excitation of CH <sub>4</sub> by collisions with helium active species. <i>Journal of Chemical Physics</i> , <b>1991</b> , 94, 277-282	3.9 16

94	Spin-orbit state selective formation of rare gas chlorides from three-body ionic-recombination reactions of $Rg+(2P_{1/2,3/2})+Cl_2+He$ at thermal energy. <i>Journal of Chemical Physics</i> , <b>1991</b> , 94, 4291-4300	3.9	16
93	Dissociative charge-transfer reactions of $Ar^+$ with fluoromethanes at thermal energy. <i>Journal of Chemical Physics</i> , <b>1992</b> , 97, 8216-8222	3.9	16
92	Formation of $Ar^+(4p)$ by $He(2\ 3S)+Ar^+(2P_{3/2})$ excitation transfer and $He^{++}+Ar(3P_2)$ charge transfer in the helium flowing afterglow. <i>Journal of Chemical Physics</i> , <b>1993</b> , 98, 8565-8571	3.9	16
91	Tunable doping of graphene nanoribbon arrays by chemical functionalization. <i>Nanoscale</i> , <b>2015</b> , 7, 3572-3577	3.7	15
90	Formation of Au@Pd@Cu core-shell nanorods from Au@Pd nanorods through a new stepwise growth mode. <i>CrystEngComm</i> , <b>2013</b> , 15, 6553	3.3	15
89	Orthogonal Growth of Horizontally Aligned Single-Walled Carbon Nanotube Arrays. <i>Journal of Physical Chemistry C</i> , <b>2010</b> , 114, 12925-12930	3.8	15
88	Effects of Water Vapor on Diameter Distribution of SWNTs Grown over Fe/MgO-Based Catalysts. <i>Journal of Physical Chemistry C</i> , <b>2010</b> , 114, 3850-3856	3.8	15
87	Photochemical removal of $NO_2$ by using 172-nm Xe(2) excimer lamp in $N_2$ or air at atmospheric pressure. <i>Journal of Hazardous Materials</i> , <b>2009</b> , 162, 1025-33	12.8	15
86	Horizontally Aligned Growth of Single-Walled Carbon Nanotubes on a Surface-Modified Silicon Wafer. <i>Journal of Physical Chemistry C</i> , <b>2009</b> , 113, 8030-8034	3.8	15
85	Dissociative excitation of $GeH_4$ by collisions with Ar and He active species. <i>Journal of Chemical Physics</i> , <b>1990</b> , 93, 3133-3141	3.9	15
84	On the nucleation of graphene by chemical vapor deposition. <i>New Journal of Chemistry</i> , <b>2012</b> , 36, 73-77	3.6	14
83	Growth of horizontally aligned single-walled carbon nanotubes on anisotropically etched silicon substrate. <i>Nanoscale</i> , <b>2010</b> , 2, 1708-14	7.7	14
82	Synthesis of high-density arrays of graphene nanoribbons by anisotropic metal-assisted etching. <i>Carbon</i> , <b>2014</b> , 78, 339-346	10.4	13
81	Stabilizer-Concentration Effects on the Size of Gold Submicrometer-Sized Spherical Particles Prepared Using Laser-Induced Agglomeration and Melting of Colloidal Nanoparticles. <i>Journal of Physical Chemistry C</i> , <b>2018</b> , 122, 21659-21666	3.8	13
80	Synthesis of Carbon-Supported Pt $\gamma$ Ox and PtY Nanoparticles with High Catalytic Activity for the Oxygen Reduction Reaction Using a Microwave-based Polyol Method. <i>ChemCatChem</i> , <b>2017</b> , 9, 962-970	5.2	12
79	Enhanced Photocatalytic Degradation of Methyl Orange by Au/TiO <sub>2</sub> Nanoparticles under Neutral and Acidic Solutions. <i>ChemistrySelect</i> , <b>2018</b> , 3, 1432-1438	1.8	12
78	Syntheses of Au-Cu-rich AuAg(AgCl)Cu alloy and Ag-Cu-rich AuAgCu@Cu core-shell and AuAgCu alloy nanoparticles using a polyol method. <i>CrystEngComm</i> , <b>2012</b> , 14, 3623	3.3	12
77	Shape changes in AuAg bimetallic systems involving polygonal Au nanocrystals to spherical Au/Ag alloy and excentered Au core Ag/Au alloy shell particles under oil-bath heating. <i>CrystEngComm</i> , <b>2011</b> , 13, 2984-2993	3.3	12



76	Efficient fabrication of substrates for surface-assisted laser desorption/ionization mass spectrometry using laser ablation in liquids. <i>Applied Surface Science</i> , <b>2011</b> , 257, 2046-2050	6.7	12
75	First observation of the $\pi$ -Transition of ArKr <sup>+</sup> . <i>Chemical Physics Letters</i> , <b>1996</b> , 256, 623-628	2.5	12
74	Morphological changes from spherical silver nanoparticles to cubes after laser irradiation in acetone/water solutions via spontaneous atom transportation process. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2017</b> , 529, 33-37	5.1	11
73	Nascent vibrational distribution of N <sub>2</sub> (B 3 $\Sigma$ <sup>-g</sup> ) produced by the reaction of Kr(3P <sub>2</sub> ) with N <sub>2</sub> . <i>Journal of Chemical Physics</i> , <b>1988</b> , 89, 3391-3392	3.9	11
72	Syntheses of Silver Nanowires in Liquid Phase <b>2010</b> ,		10
71	N <sub>2</sub> O removal in N <sub>2</sub> or air by ArF excimer laser photolysis at atmospheric pressure. <i>Journal of Hazardous Materials</i> , <b>2004</b> , 108, 189-97	12.8	10
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69	Rapid spontaneous alloying between Pd nanocubes and Ag nanoparticles in aqueous solution at ambient temperature. <i>Chemical Communications</i> , <b>2013</b> , 49, 10941-3	5.8	9
68	Syntheses of [email protected] and [email protected]@Ag Core/Shell Nanorods through Distortion-Induced Alloying between Pd Shells and Ag Atoms over Au Nanorods. <i>Journal of Physical Chemistry C</i> , <b>2015</b> , 119, 10811-10823	3.8	9
67	Direct Growth of Bent Carbon Nanotubes on Surface Engineered Sapphire. <i>Journal of Physical Chemistry C</i> , <b>2009</b> , 113, 13121-13124	3.8	9
66	Photochemical Removal of SO <sub>2</sub> and CO <sub>2</sub> by 172 nm Xe <sub>2</sub> and 146 nm Kr <sub>2</sub> Excimer Lamps in N <sub>2</sub> or Air at Atmospheric Pressure. <i>Japanese Journal of Applied Physics</i> , <b>2008</b> , 47, 8943-8949	1.4	9
65	Decomposition of NO in a microwave-absorbent assisted discharge of N <sub>2</sub> at atmospheric pressure. <i>Surface and Coatings Technology</i> , <b>2003</b> , 165, 296-308	4.4	9
64	Superior Decomposition of N <sub>2</sub> O into N <sub>2</sub> and O <sub>2</sub> in a Fast Discharge Flow of N <sub>2</sub> O/He or N <sub>2</sub> O/Ar Mixtures. <i>Japanese Journal of Applied Physics</i> , <b>2000</b> , 39, L1330-L1333	1.4	9
63	Nascent rovibrational distribution of NO <sup>+</sup> (A 1 $\Sigma$ <sup>+</sup> ) produced from charge-transfer reaction of He <sup>2+</sup> with NO at thermal energy. <i>Journal of Chemical Physics</i> , <b>1999</b> , 110, 9064-9070	3.9	9
62	Formation of ArCl(B,C), Ar(3P <sub>2</sub> ), and Cl* by the three-body ionic-recombination reaction of Ar <sup>+</sup> (2P <sub>3/2</sub> )+Cl <sup>-</sup> He. <i>Journal of Chemical Physics</i> , <b>1993</b> , 99, 1710-1718	3.9	9
61	Nascent rovibrational distribution of O <sup>+</sup> (2 $\Pi$ <sup>+</sup> ) produced by He(2 3S) Penning ionization of O <sub>2</sub> . <i>Journal of Chemical Physics</i> , <b>1988</b> , 89, 6753-6757	3.9	9
60	Formation of Rh frame nanorods using Au nanorods as sacrificial templates. <i>CrystEngComm</i> , <b>2015</b> , 17, 6955-6961	3.3	8
59	Decomposition of N <sub>2</sub> O by Microwave Discharge of N <sub>2</sub> O/He or N <sub>2</sub> O/Ar Mixtures. <i>Japanese Journal of Applied Physics</i> , <b>2001</b> , 40, 7091-7097	1.4	8

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57	Electronic state distributions of Kr <sup>+</sup> formed by excitation transfer from He(2 3S) to Kr+(2P <sub>03/2</sub> ) and Kr+(2P <sub>01/2</sub> ) at thermal energy. <i>Journal of Chemical Physics</i> , <b>1993</b> , 99, 4539-4547	3.9	8
56	Nascent vibrational and rotational distributions of CH <sup>+</sup> (A 1 $\bar{\Sigma}$ ) produced from the charge transfer reaction of He <sup>+</sup> with C <sub>2</sub> H <sub>2</sub> at thermal energy. <i>Journal of Chemical Physics</i> , <b>1987</b> , 87, 1637-1640	3.9	8
55	Formation of Oriented Graphene Nanoribbons over Heteroepitaxial Cu Surfaces by Chemical Vapor Deposition. <i>Chemistry of Materials</i> , <b>2014</b> , 26, 5215-5222	9.6	7
54	Shape-controlled Preparation of Gold Nanocrystals Using a Microwave Polyol Method. <i>Chemistry Letters</i> , <b>2009</b> , 38, 478-479	1.7	7
53	Photochemical Removal of NO, NO <sub>2</sub> , and N <sub>2</sub> O by 146 nm Kr <sub>2</sub> Excimer Lamp in N <sub>2</sub> at Atmospheric Pressure. <i>Bulletin of the Chemical Society of Japan</i> , <b>2009</b> , 82, 277-284	5.1	7
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