Masaharu Tsuji

List of Publications by Year in Descending Order

201 papers	8,039 citations	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	Photochemical degradation of acrolein using VUV excimer lamp in air at atmospheric pressure. *International Journal of Environmental Science and Technology*, **2019**, 16, 7229-7240	3.3	
200	Photochemical removal of NO2 in air at atmospheric pressure using side-on type 172-nm Xe2 excimer lamp. *International Journal of Environmental Science and Technology*, **2019**, 16, 5685-5694	3.3	
199	Photochemical removal of acetaldehyde using 172□nm vacuum ultraviolet excimer lamp in N or air at atmospheric pressure. *Environmental Science and Pollution Research*, **2019**, 26, 11314-11325	5.1	3
198	Enhanced Photocatalytic Degradation of Methyl Orange by Au/TiO2 Nanoparticles under Neutral and Acidic Solutions. *ChemistrySelect*, **2018**, 3, 1432-1438	1.8	12
197	Synthesis of Flower-Like AuPd@SiO2 Nanoparticles with a Broad Light Extinction for Application to Efficient Dye-Sensitized Solar Cells. *Particle and Particle Systems Characterization*, **2018**, 35, 1700396	3.1	5
196	Efficient removal of benzene in air at atmospheric pressure using a side-on type 172□nm Xe excimer lamp. *Environmental Science and Pollution Research*, **2018**, 25, 18980-18989	5.1	6
195	Stabilizer-Concentration Effects on the Size of Gold Submicrometer-Sized Spherical Particles Prepared Using Laser-Induced Agglomeration and Melting of Colloidal Nanoparticles. *Journal of Physical Chemistry C*, **2018**, 122, 21659-21666	3.8	13
194	Microwave-Assisted Synthesis of Metallic Nanomaterials in Liquid Phase. *ChemistrySelect*, **2017**, 2, 805-819	1.8	27
193	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
192	Morphological changes from spherical silver nanoparticles to cubes after laser irradiation in acetone□water solutions via spontaneous atom transportation process. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2017**, 529, 33-37	5.1	11
191	Synthesis of Carbon-Supported Pt□Y□Ox and Pt□Y Nanoparticles with High Catalytic Activity for the Oxygen Reduction Reaction Using a Microwave-based Polyol Method. *ChemCatChem*, **2017**, 9, 962-970	5.2	12
190	Enhancement of catalytic activity of AgPd@Pd/TiO2 nanoparticles under UV and visible photoirradiation. *Journal of Materials Chemistry A*, **2016**, 4, 14649-14656	13	18
189	Highly Uniform Bilayer Graphene on Epitaxial Cu□Ni(111) Alloy. *Chemistry of Materials*, **2016**, 28, 4583-4592	9.6	75
188	Gate-Tunable Dirac Point of Molecular Doped Graphene. *ACS Nano*, **2016**, 10, 2930-9	16.7	38
187	Visualization of Grain Structure and Boundaries of Polycrystalline Graphene and Two-Dimensional Materials by Epitaxial Growth of Transition Metal Dichalcogenides. *ACS Nano*, **2016**, 10, 3233-40	16.7	52
186	Preparation of Gold Submicron-Sized Particles Using Laser Irradiation for Gold Nanoparticles Stabilized by Carbonate. *Electronics and Communications in Japan*, **2016**, 99, 64-70	0.4	1
185	Tunable doping of graphene nanoribbon arrays by chemical functionalization. *Nanoscale*, **2015**, 7, 3572-80	7.7	15

184	Formation of Rh frame nanorods using Au nanorods as sacrificial templates. *CrystEngComm*, **2015**, 17, 6955-6961	3.3	8
183	Growth Dynamics of Single-Layer Graphene on Epitaxial Cu Surfaces. *Chemistry of Materials*, **2015**, 27, 5377-5385	9.6	50
182	Efficient hydrogen production from formic acid using TiO2-supported AgPd@Pd nanocatalysts. *Journal of Materials Chemistry A*, **2015**, 3, 4453-4461	13	61
181	Controlled van der Waals epitaxy of monolayer MoS2 triangular domains on graphene. *ACS Applied Materials & Interfaces*, **2015**, 7, 5265-73	9.5	106
180	AgPd@Pd/TiO2 nanocatalyst synthesis by microwave heating in aqueous solution for efficient hydrogen production from formic acid. *Journal of Materials Chemistry A*, **2015**, 3, 10666-10670	13	31
179	Syntheses of and @Ag Core–Shell Nanorods through Distortion-Induced Alloying between Pd Shells and Ag Atoms over Au Nanorods. *Journal of Physical Chemistry C*, **2015**, 119, 10811-10823	3.8	9
178	Preparation of Gold Submicron-sized Particles using Laser Irradiation for Gold Nanoparticles Stabilized by Carbonate. *IEEJ Transactions on Electronics, Information and Systems*, **2015**, 135, 1090-1095	0.1	
177	Synthesis and growth mechanism of Au@Cu core–shell nanorods having excellent antioxidative properties. *CrystEngComm*, **2014**, 16, 5672	3.3	19
176	Increased chemical reactivity achieved by asymmetrical "Janus" functionalisation of graphene. *RSC Advances*, **2014**, 4, 52215-52219	3.7	25
175	Synthesis of high-density arrays of graphene nanoribbons by anisotropic metal-assisted etching. *Carbon*, **2014**, 78, 339-346	10.4	13
174	Synthesis of Ag–Au and Ag–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
173	Structure and transport properties of the interface between CVD-grown graphene domains. *Nanoscale*, **2014**, 6, 7288-94	7.7	42
172	Formation of Oriented Graphene Nanoribbons over Heteroepitaxial Cu Surfaces by Chemical Vapor Deposition. *Chemistry of Materials*, **2014**, 26, 5215-5222	9.6	7
171	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
170	Epitaxial Growth and Electronic Properties of Large Hexagonal Graphene Domains on Cu(111) Thin Film. *Applied Physics Express*, **2013**, 6, 075101	2.4	65
169	Rapid spontaneous alloying between Pd nanocubes and Ag nanoparticles in aqueous solution at ambient temperature. *Chemical Communications*, **2013**, 49, 10941-3	5.8	9
168	Lattice-oriented catalytic growth of graphene nanoribbons on heteroepitaxial nickel films. *ACS Nano*, **2013**, 7, 10825-33	16.7	27
167	Formation of Au@Pd@Cu core–shell nanorods from Au@Pd nanorods through a new stepwise growth mode. *CrystEngComm*, **2013**, 15, 6553	3.3	15

166	Effects of Au fraction on the morphology and stability of AuAgCu trimetallic particles prepared using a polyol method. *CrystEngComm*, **2013**, 15, 7062	3.3	5
165	Synthesis and growth mechanism of triangular Ag-rich AgAu alloy prisms in an aqueous solution in the presence of PVP, citrate and H2O2. *CrystEngComm*, **2013**, 15, 7688	3.3	5
164	Synthesis of cubic PdAg random alloy nanocrystal in an aqueous solution in the presence of CTAB. *Materials Letters*, **2013**, 95, 201-204	3.3	3
163	Mechanical Strain of Chemically Functionalized Chemical Vapor Deposition Grown Graphene. *Journal of Physical Chemistry C*, **2013**, 117, 3152-3159	3.8	45
162	Synthesis of Au@Ag@Cu trimetallic nanocrystals using three-step reduction. *CrystEngComm*, **2013**, 15, 1345	3.3	19
161	Near-Infrared photoluminescence in the femtosecond time region in monolayer graphene on SiO. *ACS Nano*, **2013**, 7, 2335-43	16.7	22
160	Preparation and investigation of the formation mechanism of submicron-sized spherical particles of gold using laser ablation and laser irradiation in liquids. *Physical Chemistry Chemical Physics*, **2013**, 15, 3099-107	3.6	62
159	Large-scale synthesis of NbS2 nanosheets with controlled orientation on graphene by ambient pressure CVD. *Nanoscale*, **2013**, 5, 5773-8	7.7	82
158	Self-Assembly of Polar Phthalocyanine Molecules on Graphene Grown by Chemical Vapor Deposition. *Journal of Physical Chemistry C*, **2013**, 117, 21849-21855	3.8	38
157	Effects of Ar or O2Gas Bubbling for Shape, Size, and Composition Changes in Silver-Gold Alloy Nanoparticles Prepared from Galvanic Replacement Reaction. *Journal of Nanomaterials*, **2013**, 2013, 1-10	3.2	
156	Dense arrays of highly aligned graphene nanoribbons produced by substrate-controlled metal-assisted etching of graphene. *Advanced Materials*, **2013**, 25, 6562-8	24	31
155	Catalytic Growth of Graphene: Toward Large-Area Single-Crystalline Graphene. *Journal of Physical Chemistry Letters*, **2012**, 3, 2228-36	6.4	120
154	Growth of Horizontally-Aligned Single-Walled Carbon Nanotubes on Sapphire Surface by Needle-Scratching Method. *Japanese Journal of Applied Physics*, **2012**, 51, 04DN02	1.4	
153	Epitaxial growth of Au@Pd coreshell nanocrystals prepared using a PVP-assisted polyol reduction method. *CrystEngComm*, **2012**, 14, 3411	3.3	29
152	On the nucleation of graphene by chemical vapor deposition. *New Journal of Chemistry*, **2012**, 36, 73-77	3.6	14
151	Crystal structures and growth mechanisms of octahedral and decahedral Au@Ag core-shell nanocrystals prepared by a two-step reduction method. *CrystEngComm*, **2012**, 14, 7639	3.3	21
150	Syntheses of AuCu-rich AuAg(AgCl)Cu alloy and AgCu-rich AuAgCu@Cu coreshell and AuAgCu alloy nanoparticles using a polyol method. *CrystEngComm*, **2012**, 14, 3623	3.3	12
149	Domain Structure and Boundary in Single-Layer Graphene Grown on Cu(111) and Cu(100) Films. *Journal of Physical Chemistry Letters*, **2012**, 3, 219-226	6.4	186

148	Step-templated CVD growth of aligned graphene nanoribbons supported by a single-layer graphene film. *Nanoscale*, **2012**, 4, 5178-82	7.7	19
147	Rapid transformation from spherical nanoparticles, nanorods, cubes, or bipyramids to triangular prisms of silver with PVP, citrate, and H2O2. *Langmuir*, **2012**, 28, 8845-61	4	99
146	Epitaxial growth of large-area single-layer graphene over Cu(1 1 1)/sapphire by atmospheric pressure CVD. *Carbon*, **2012**, 50, 57-65	10.4	218
145	Influence of Cu metal on the domain structure and carrier mobility in single-layer graphene. *Carbon*, **2012**, 50, 2189-2196	10.4	78
144	Growth of Horizontally-Aligned Single-Walled Carbon Nanotubes on Sapphire Surface by Needle-Scratching Method. *Japanese Journal of Applied Physics*, **2012**, 51, 04DN02	1.4	1
143	Shape changes in Au□Ag bimetallic systems involving polygonal Au nanocrystals to spherical Au/Ag alloy and excentered Au core Ag/Au alloy shell particles under oil-bath heating. *CrystEngComm*, **2011**, 13, 2984-2993	3.3	12
142	Epitaxial Growth of [email□protected] Core□Shell Nanocrystals Prepared Using a Two-Step Reduction Method. *Crystal Growth and Design*, **2011**, 11, 1995-2005	3.5	71
141	Synthesis of large area, homogeneous, single layer graphene films by annealing amorphous carbon on Co and Ni. *Nano Research*, **2011**, 4, 531-540	10	73
140	Effects of gas bubbling for shape, size, and composition changes in Au□Ag bimetallic nanoparticles including polygonal Au seeds under oil-bath heating at 150 □C. *CrystEngComm*, **2011**, 13, 6499	3.3	6
139	Ultrahigh-Vacuum-Assisted Control of Metal Nanoparticles for Horizontally Aligned Single-Walled Carbon Nanotubes with Extraordinary Uniform Diameters. *Journal of Physical Chemistry C*, **2011**, 115, 13247-13253	3.8	33
138	Combinatorial catalyst approach for high-density growth of horizontally aligned single-walled carbon nanotubes on sapphire. *Carbon*, **2011**, 49, 176-186	10.4	21
137	Efficient fabrication of substrates for surface-assisted laser desorption/ionization mass spectrometry using laser ablation in liquids. *Applied Surface Science*, **2011**, 257, 2046-2050	6.7	12
136	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
135	Synthesis of Au core Au/Ag alloy shell nanoparticles using branched Au nanoparticles as seeds. *CrystEngComm*, **2011**, 13, 72-76	3.3	16
134	Syntheses of Silver Nanowires in Liquid Phase **2010**,		10
133	Epitaxial chemical vapor deposition growth of single-layer graphene over cobalt film crystallized on sapphire. *ACS Nano*, **2010**, 4, 7407-14	16.7	247
132	Growth of horizontally aligned single-walled carbon nanotubes on anisotropically etched silicon substrate. *Nanoscale*, **2010**, 2, 1708-14	7.7	14
131	Epitaxial Growth of Au@Cu Core□Shell Nanocrystals Prepared Using the PVP-Assisted Polyol Reduction Method. *Crystal Growth and Design*, **2010**, 10, 5129-5135	3.5	77

130	Orthogonal Growth of Horizontally Aligned Single-Walled Carbon Nanotube Arrays. *Journal of Physical Chemistry C*, **2010**, 114, 12925-12930	3.8	15
129	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
128	Crystal Structures and Growth Mechanisms of Icosahedral Au@Ag Core–Shell and Au/Ag Twin Nanocrystals Prepared by PVP-Assisted N,N-Dimethylformamide Reduction. *Crystal Growth and Design*, **2010**, 10, 4085-4090	3.5	39
127	Stepwise Growth of Decahedral and Icosahedral Silver Nanocrystals in DMF. *Crystal Growth and Design*, **2010**, 10, 296-301	3.5	85
126	Syntheses of Ag/Cu alloy and Ag/Cu alloy core Cu shell nanoparticles using a polyol method. *CrystEngComm*, **2010**, 12, 3900	3.3	83
125	Effects of Water Vapor on Diameter Distribution of SWNTs Grown over Fe/MgO-Based Catalysts. *Journal of Physical Chemistry C*, **2010**, 114, 3850-3856	3.8	15
124	Shape Changes from Polygonal Gold Nanocrystals to Spherical Nanoparticles Induced by Bubbling N2or O2Gas in Polyol Synthesis of Gold Nanostructures. *Bulletin of the Chemical Society of Japan*, **2010**, 83, 92-100	5.1	5
123	Photochemical Removal of Benzene Using 172 nm Xe2Excimer Lamp in N2/O2Mixtures at Atmospheric Pressure. *Bulletin of the Chemical Society of Japan*, **2010**, 83, 582-591	5.1	3
122	Synthesis of Ag@Cu Core–Shell Nanoparticles in High Yield Using a Polyol Method. *Chemistry Letters*, **2010**, 39, 334-336	1.7	35
121	Epitaxial Growth of Faceted Co Nanoparticles on Sapphire Surfaces. *Chemistry Letters*, **2010**, 39, 964-965	1.7	
120	Rapid synthesis of Ag@Ni core–shell nanoparticles using a microwave-polyol method. *Materials Letters*, **2010**, 64, 1793-1797	3.3	30
119	Patterned growth of graphene over epitaxial catalyst. *Small*, **2010**, 6, 1226-33	11	33
118	Top-down approach to align single-walled carbon nanotubes on silicon substrate. *Applied Physics Letters*, **2009**, 94, 053113	3.4	18
117	One-step preparation of superlattices and nanocrystals using laser ablation. *Journal of Applied Physics*, **2009**, 106, 054313	2.5	3
116	Injection of Laser Ablation Products into a Liquid in Evacuated Environment: An Alternative Laser Ablation Technique for Fabrication of Colloidal Nanoparticles. *Japanese Journal of Applied Physics*, **2009**, 48, 095006	1.4	5
115	Photochemical Removal of N2O in N2or Air Using 172 nm Excimer Lamps. *Japanese Journal of Applied Physics*, **2009**, 48, 046002	1.4	4
114	Photochemical removal of NO(2) by using 172-nm Xe(2) excimer lamp in N(2) or air at atmospheric pressure. *Journal of Hazardous Materials*, **2009**, 162, 1025-33	12.8	15
113	Laser-induced silver nanocrystal formation in polyvinylpyrrolidone solutions. *Journal of Photochemistry and Photobiology A: Chemistry*, **2009**, 206, 134-139	4.7	29

112	Rapid and high-yield synthesis of silver nanowires using air-assisted polyol method with chloride ions. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2009**, 338, 33-39	5.1	77
111	Direct Growth of Bent Carbon Nanotubes on Surface Engineered Sapphire. *Journal of Physical Chemistry C*, **2009**, 113, 13121-13124	3.8	9
110	Shape Evolution of Octahedral and Triangular Platelike Silver Nanocrystals from Cubic and Right Bipyramidal Seeds in DMF. *Crystal Growth and Design*, **2009**, 9, 4700-4705	3.5	44
109	Horizontally Aligned Growth of Single-Walled Carbon Nanotubes on a Surface-Modified Silicon Wafer. *Journal of Physical Chemistry C*, **2009**, 113, 8030-8034	3.8	15
108	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
107	Shape-controlled Preparation of Gold Nanocrystals Using a Microwave□polyol Method. *Chemistry Letters*, **2009**, 38, 478-479	1.7	7
106	Effects of Bubbling N2or O2Gas in Syntheses of Gold Nanocrystals Using a Polyol Method. *Chemistry Letters*, **2009**, 38, 618-619	1.7	2
105	Photochemical Removal of NO, NO2, and N2O by 146 nm Kr2Excimer Lamp in N2at Atmospheric Pressure. *Bulletin of the Chemical Society of Japan*, **2009**, 82, 277-284	5.1	7
104	Preparation of Cu@Ag Core□hell Nanoparticles Using a Two-step Polyol Process under Bubbling of N2Gas. *Chemistry Letters*, **2009**, 38, 518-519	1.7	67
103	Synthesis of Bicompartmental Ag/Cu Nanoparticles Using a Two-step Polyol Process. *Chemistry Letters*, **2009**, 38, 860-861	1.7	29
102	Poly(N-vinyl-2-pyrrolidone) (PVP)-capped dendritic gold nanoparticles by a one-step hydrothermal route and their high SERS effect. *Langmuir*, **2008**, 24, 1763-8	4	112
101	Shape-Dependent Evolution of [email□protected] Core□hell Nanocrystals by PVP-Assisted N,N-Dimethylformamide Reduction. *Crystal Growth and Design*, **2008**, 8, 2528-2536	3.5	116
100	Hole Doping to Aligned Single-Walled Carbon Nanotubes from Sapphire Substrate Induced by Heat Treatment. *Journal of Physical Chemistry C*, **2008**, 112, 18350-18354	3.8	4
99	Visualization of Horizontally-Aligned Single-Walled Carbon Nanotube Growth with13C/12C Isotopes. *Journal of Physical Chemistry C*, **2008**, 112, 1735-1738	3.8	26
98	Photochemical Removal of SO2and CO2by 172 nm Xe2and 146 nm Kr2Excimer Lamps in N2or Air at Atmospheric Pressure. *Japanese Journal of Applied Physics*, **2008**, 47, 8943-8949	1.4	9
97	The Role of Adsorption Species in the Formation of Ag Nanostructures by a Microwave-Polyol Route. *Bulletin of the Chemical Society of Japan*, **2008**, 81, 393-400	5.1	19
96	Photo-induced morphological conversions of silver nanoparticles prepared using laser ablation in water□nhanced morphological conversions using halogen etching. *Journal of Photochemistry and Photobiology A: Chemistry*, **2008**, 194, 247-253	4.7	27
95	Preparation of silver nanoparticles by laser ablation in polyvinylpyrrolidone solutions. *Applied Surface Science*, **2008**, 254, 5224-5230	6.7	192

94	Roles of Pt seeds and chloride anions in the preparation of silver nanorods and nanowires by microwave-polyol method. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2008**, 316, 266-277	5.1	80
93	Toward to branched platinum nanoparticles by polyol reduction: A role of poly(vinylpyrrolidone) molecules. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2008**, 317, 23-31	5.1	44
92	Role of chloride ions in the formation of Au@Ag core–shell nanocrystal structures by using a microwave–polyol method. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2008**, 317, 247-255	5.1	39
91	Nanosecond Time-Resolved Observations of Laser Ablation of Silver in Water. *Japanese Journal of Applied Physics*, **2007**, 46, 1533-1535	1.4	97
90	Rapid Preparation of Silver Nanorods and Nanowires by a Microwave-Polyol Method in the Presence of Pt Catalyst and Polyvinylpyrrolidone. *Crystal Growth and Design*, **2007**, 7, 311-320	3.5	83
89	Fast preparation of PtRu catalysts supported on carbon nanofibers by the microwave-polyol method and their application to fuel cells. *Langmuir*, **2007**, 23, 387-90	4	124
88	Rapid synthesis of silver nanostructures by using microwave-polyol method with the assistance of Pt seeds and polyvinylpyrrolidone. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2007**, 293, 185-194	5.1	80
87	Shape and size controlled synthesis of gold nanocrystals using oxidative etching by $AuCl_4^-$ and Cl^- anions in microwave-polyol process. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2007**, 302, 587-598	5.1	53
86	Preparation of $LiMn_2O_4$ nanoparticles for Li ion secondary batteries by laser ablation in water. *Materials Letters*, **2007**, 61, 2062-2065	3.3	16
85	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. *Bulletin of the Chemical Society of Japan*, **2007**, 80, 2024-2038	5.1	20
84	Efficient Conversion of NO_2 into N_2 and O_2 in N_2 or into N_2O_5 in Air by 172-nm Xe2Excimer Lamp at Atmospheric Pressure. *Chemistry Letters*, **2007**, 36, 376-377	1.7	7
83	Chemistry of Water-Assisted Carbon Nanotube Growth over Fe–Mo/MgO Catalyst. *Journal of Physical Chemistry C*, **2007**, 111, 11577-11582	3.8	51
82	Synthesis and growth mechanism of pentagonal bipyramid-shaped gold-rich Au/Ag alloy nanoparticles. *Langmuir*, **2007**, 23, 6372-6	4	45
81	Competition and cooperation between lattice-oriented growth and step-templated growth of aligned carbon nanotubes on sapphire. *Applied Physics Letters*, **2007**, 90, 123112	3.4	52
80	Effects of chain length of polyvinylpyrrolidone for the synthesis of silver nanostructures by a microwave-polyol method. *Materials Letters*, **2006**, 60, 834-838	3.3	71
79	Crystal Structures and Growth Mechanisms of Core–Shell Nanoparticles Prepared by the Microwave–Polyol Method. *Crystal Growth and Design*, **2006**, 6, 1801-1807	3.5	185
78	Gas analysis of the CVD process for high yield growth of carbon nanotubes over metal-supported catalysts. *Carbon*, **2006**, 44, 2912-2918	10.4	118
77	Synthesis of horizontally-aligned single-walled carbon nanotubes with controllable density on sapphire surface and polarized Raman spectroscopy. *Chemical Physics Letters*, **2006**, 421, 399-403	2.5	56

76	Laser-induced morphology changes of silver colloids prepared by laser ablation in water: Enhancement of anisotropic shape conversions by chloride ions. *Journal of Photochemistry and Photobiology A: Chemistry*, **2006**, 183, 297-303	4.7	41
75	CVD growth of single-walled carbon nanotubes with narrow diameter distribution over Fe/MgO catalyst and their fluorescence spectroscopy. *Journal of Physical Chemistry B*, **2005**, 109, 10035-41	3.4	121
74	Laser-induced Structural Conversions of Silver Nanoparticles in Pure Water Influence of Laser Intensity *Chemistry Letters*, **2005**, 34, 476-477	1.7	32
73	Efficient Photochemical Conversion of N2O into N2and O2by 193-nm-ArF-excimer Laser in N2or Air at Atmospheric Pressure. *Chemistry Letters*, **2005**, 34, 812-813	1.7	5
72	Rapid Formation of Novel Au CoreAg Shell Nanostructures by a Microwave-polyol Method. *Chemistry Letters*, **2005**, 34, 1518-1519	1.7	30
71	Efficient Decomposition of NO2into N2and O2by 193-nm ArF Laser in N2Atmosphere. *Chemistry Letters*, **2005**, 34, 496-497	1.7	7
70	Aligned growth of isolated single-walled carbon nanotubes programmed by atomic arrangement of substrate surface. *Chemical Physics Letters*, **2005**, 408, 433-438	2.5	143
69	Laser ablation of cobalt and cobalt oxides in liquids: influence of solvent on composition of prepared nanoparticles. *Applied Surface Science*, **2005**, 243, 214-219	6.7	105
68	Rapid synthesis of gold nanostructures by a microwave polyol method with the assistance of CnTAB (n=10, 12, 14, 16) or C16PC. *Materials Letters*, **2005**, 59, 3856-3860	3.3	10
67	Microwave-assisted synthesis of metallic nanostructures in solution. *Chemistry - A European Journal*, **2005**, 11, 440-52	4.8	596
66	Preparation of Nano-Structures of Metal by Using Laser Ablation in Water. *The Review of Laser Engineering*, **2005**, 33, 36-40	0	4
65	Formation of C2nH2 Polyynes by Laser Ablation of Graphite, Coal or C60 Particles Suspended in Selected Solvents **2005**, 127-154		
64	N2O removal in N2 or air by ArF excimer laser photolysis at atmospheric pressure. *Journal of Hazardous Materials*, **2004**, 108, 189-97	12.8	10
63	Growth of double-wall carbon nanotubes with diameter-controlled iron oxide nanoparticles supported on MgO. *Chemical Physics Letters*, **2004**, 391, 308-313	2.5	76
62	Microsecond-resolved imaging of laser ablation at solid quid interface: investigation of formation process of nano-size metal colloids. *Applied Surface Science*, **2004**, 229, 365-371	6.7	95
61	Roles of Metal Support Interaction in Growth of Single- and Double-Walled Carbon Nanotubes Studied with Diameter-Controlled Iron Particles Supported on MgO. *Journal of Physical Chemistry B*, **2004**, 108, 18908-18915	3.4	100
60	Preparation of Nanoparticles of LiCoO2Using Laser Ablation in Liquids. *Chemistry Letters*, **2004**, 33, 1136-1137	1.7	22
59	Syntheses of Silver Nanofilms, Nanorods, and Nanowires by a Microwave-polyol Method in the Presence of Pt Seeds and Polyvinylpyrrolidone. *Chemistry Letters*, **2004**, 33, 370-371	1.7	50

58	Preparation of Gold Nanoplates by a Microwave-polyol Method. *Chemistry Letters*, **2003**, 32, 1114-1115	1.7	113
57	Formation of hydrogen-capped polyynes by laser ablation of C60 particles suspended in solution. *Carbon*, **2003**, 41, 2141-2148	10.4	70
56	Decomposition of NO in a microwave-absorbent assisted discharge of N2 at atmospheric pressure. *Surface and Coatings Technology*, **2003**, 165, 296-308	4.4	9
55	Preparation of nano-size particles of silver with femtosecond laser ablation in water. *Applied Surface Science*, **2003**, 206, 314-320	6.7	184
54	Laser induced morphology change of silver colloids: formation of nano-size wires. *Applied Surface Science*, **2003**, 211, 189-193	6.7	93
53	Decomposition of N2O in a microwave-absorbent assisted discharge of N2 at atmospheric pressure. *Applied Surface Science*, **2003**, 217, 134-148	6.7	18
52	Preparation of silver nanoparticles by laser ablation in solution: influence of laser wavelength on particle size. *Applied Surface Science*, **2002**, 202, 80-85	6.7	355
51	Electronic-state distribution of Ar* produced from Ar+(2P3/2)/2e collisional radiative recombination in an argon flowing afterglow. *Chemical Physics*, **2002**, 285, 335-344	2.3	2
50	Formation of hydrogen-capped polyynes by laser ablation of graphite particles suspended in solution. *Chemical Physics Letters*, **2002**, 355, 101-108	2.5	102
49	Effects of Microwave Absorbents in NO Removal by Microwave Discharge of NO/Ar Mixture at Atmospheric Pressure. *Chemistry Letters*, **2002**, 31, 338-339	1.7	3
48	Decomposition of NO by Microwave Discharge of NO/He or NO/Ar Mixtures. *Bulletin of the Chemical Society of Japan*, **2002**, 75, 607-614	5.1	5
47	Fast Preparation of Nano-sized Nickel Particles under Microwave Irradiation without Using Catalyst for Nucleation. *Chemistry Letters*, **2002**, 31, 1232-1233	1.7	27
46	Preparation of metal colloids by a laser ablation technique in solution: influence of laser wavelength on the ablation efficiency (II). *Journal of Photochemistry and Photobiology A: Chemistry*, **2001**, 145, 201-207	4.7	136
45	Decomposition of N2O by Microwave Discharge of N2O/He or N2O/Ar Mixtures. *Japanese Journal of Applied Physics*, **2001**, 40, 7091-7097	1.4	8
44	Effects of vibrational excitation of target N2 molecule in charge transfer reaction of He+ with N2 at thermal energy. *Journal of Chemical Physics*, **2001**, 115, 6811-6814	3.9	3
43	Initial Product-Ion Distributions in Ion-Molecule Reactions of CH5+, C2H5+, and C3H5+ with Anilines, Nitrobenzene, and Benzonitrile.. *Journal of the Mass Spectrometry Society of Japan*, **2001**, 49, 188-194	0.2	1
42	Superior Decomposition of N2O into N2 and O2 in a Fast Discharge Flow of N2O/He or N2O/Ar Mixtures. *Japanese Journal of Applied Physics*, **2000**, 39, L1330-L1333	1.4	9
41	Nascent rovibrational distribution of NO+(A 1) produced from charge-transfer reaction of He2+ with NO at thermal energy. *Journal of Chemical Physics*, **1999**, 110, 9064-9070	3.9	9

40	Formation of He* by ion–ion neutralization reactions of He+ with C6F5X (X=F, Cl, Br, CF3) in a helium flowing afterglow. *Journal of Chemical Physics*, **1999**, 110, 2903-2910	3.9	4
39	Chemical Dry Etching of Si Substrate in a Discharge Flow Using Ar/CF4Gas Mixtures. *Japanese Journal of Applied Physics*, **1999**, 38, 6470-6475	1.4	8
38	Electronic State Distributions of He(ns,np,nd) Rydberg States Produced from Three-Body Collisional Radiative Recombination of He+in a Helium Flowing Afterglow. *Japanese Journal of Applied Physics*, **1998**, 37, 5775-5780	1.4	7
37	Formation of XeBr*, Xe*, and Br* by the Xe+(2P1/2)/Br/He and Xe+(2P3/2)/Br/He three-body ionic-recombination reactions in a helium flowing afterglow. *Journal of Chemical Physics*, **1998**, 109, 3374-3385	3.9	4
36	Emission spectra of NeRg2+(Rg=Ar,Kr,Xe), ArRg2+(Rg=Kr,Xe), and KrXe2+ heterotrimer ions produced in rare gas flowing afterglows at high stagnation pressures. *Journal of Chemical Physics*, **1997**, 107, 4852-4863	3.9	4
35	First observation of the -n Transition of ArKr+. *Chemical Physics Letters*, **1996**, 256, 623-628	2.5	12
34	The influence of neutral reagents on the effective recombination energy of the ArN+2 cluster ion in charge-transfer reactions at thermal energies. *Journal of Chemical Physics*, **1995**, 102, 4842-4849	3.9	
33	Mass Spectrometric Study on Ion-Molecule Reaction of CF+3 with Anisole at Near-Thermal Energy.. *Journal of the Mass Spectrometry Society of Japan*, **1995**, 43, 109-114	0.2	6
32	Ion–molecule reactions of ArN+2 with simple aliphatic hydrocarbons at thermal energy. *Journal of Chemical Physics*, **1994**, 101, 8687-8696	3.9	3
31	Electronic state distribution of Xe+* formed by excitation transfer from He(2 3S) to Xe+(2P03/2) at thermal energy. *Journal of Chemical Physics*, **1994**, 101, 8726-8736	3.9	3
30	Electronic state distribution of Xe+* formed by excitation transfer from Ne(3P00,2) to Xe+(2P03/2) at thermal energy. *Journal of Chemical Physics*, **1994**, 101, 7451-7457	3.9	1
29	Formation of ArCl(B,C), Ar(3P2), and Cl* by the three-body ionic-recombination reaction of Ar+(2P3/2)+Cl–Ar. *Journal of Chemical Physics*, **1994**, 101, 328-337	3.9	4
28	Formation of ArCl(B,C), Ar(3P2), and Cl* by the three-body ionic-recombination reaction of Ar+(2P3/2)+Cl–He. *Journal of Chemical Physics*, **1993**, 99, 1710-1718	3.9	9
27	Electronic state distributions of Kr+* formed by excitation transfer from He(2 3S) to Kr+(2P03/2) and Kr+(2P01/2) at thermal energy. *Journal of Chemical Physics*, **1993**, 99, 4539-4547	3.9	8
26	Ion–molecule reaction of ArN+2 with CH4 at thermal energy. *Journal of Chemical Physics*, **1993**, 99, 6215-6216	3.9	3
25	Thermal energy reactions of CO+2 with chloromethanes. *Journal of Chemical Physics*, **1993**, 99, 4526-4533	3.9	2
24	Formation of Ar+(4p) by He(2 3S)+Ar+(2P3/2) excitation transfer and He++Ar(3P2) charge transfer in the helium flowing afterglow. *Journal of Chemical Physics*, **1993**, 98, 8565-8571	3.9	16
23	Rovibrational distributions of CH(A 2) produced in energy-transfer reactions from Ar(3P2), Kr(3P2), and Xe(3P2) atoms to C2H5 radical. *Journal of Chemical Physics*, **1992**, 96, 6746-6751	3.9	2

22	Comparison of the Rg+(2P1/2)/Cl⁻/He and Rg+(2P3/2)/Cl⁻/He three-body ionic-recombination reactions for the formation of RgCl*, Rg*, and Cl*. *Journal of Chemical Physics*, **1992**, 97, 1079-1086	3.9	7
21	Dissociative charge-transfer reactions of Ar+ with fluoromethanes at thermal energy. *Journal of Chemical Physics*, **1992**, 97, 8216-8222	3.9	16
20	Dissociative excitation of CF4, CCl4, and chlorofluoromethanes by collisions with argon and helium active species. *Journal of Chemical Physics*, **1992**, 97, 245-255	3.9	17
19	Dissociative excitation of CH4 by collisions with helium active species. *Journal of Chemical Physics*, **1991**, 94, 277-282	3.9	16
18	Spin–orbit state selective formation of rare gas chlorides from three-body ionic-recombination reactions of Rg+(2P1/2,3/2)+Cl⁻+He at thermal energy. *Journal of Chemical Physics*, **1991**, 94, 4291-4300	3.9	16
17	Formation of CH(A 2Δ, B 2Σ⁻, C 2Π) by electron–ion recombination processes in the argon and krypton afterglow reactions of CH4. *Journal of Chemical Physics*, **1991**, 94, 1127-1133	3.9	25
16	Dissociative excitation of GeH4 by collisions with Ar and He active species. *Journal of Chemical Physics*, **1990**, 93, 3133-3141	3.9	15
15	Spin–orbit state selectivity in KrF*and XeF* formation from ion-recombination reactions of Kr+(2P3/2,1/2) and Xe+(2P3/2,1/2) with SF_6 in the flowing afterglow. *Journal of Chemical Physics*, **1990**, 92, 6502-6503	3.9	28
14	Rotational energy distribution of CO(c 3Σ⁺, v=0) in the near-resonant Ar(3P2)+12CO and 13CO electronic energy transfer. *Journal of Chemical Physics*, **1989**, 90, 5891-5892	3.9	4
13	Rovibrational distribution of NH(A 3Π) produced from the reaction of Kr* with NH3. *Journal of Chemical Physics*, **1988**, 88, 5249-5251	3.9	3
12	Nascent vibrational distribution of N2(B 3Πg) produced by the reaction of Kr(3P2) with N2. *Journal of Chemical Physics*, **1988**, 89, 3391-3392	3.9	11
11	Thermal-energy chemiluminescent reaction of N(2D) with OCS: Nascent vibrational and rotational distributions of the NS(B 2Π) product. *Journal of Chemical Physics*, **1988**, 89, 257-261	3.9	6
10	Nascent rovibrational distributions of OH+ and OD+ in the A 3Π state produced from the dissociative charge transfer reactions of He+ with H2O and D2O at thermal energy. *Journal of Chemical Physics*, **1988**, 88, 3111-3115	3.9	4
9	Nascent rovibrational distribution of O+2(A 2Πu) produced by He(2 3S) Penning ionization of O2. *Journal of Chemical Physics*, **1988**, 89, 6753-6757	3.9	9
8	Nascent vibrational and rotational distributions of CH+ (A 1Π) produced from the charge transfer reaction of He+ with C2H2 at thermal energy. *Journal of Chemical Physics*, **1987**, 87, 1637-1640	3.9	8
7	Optical study of the He++N2 charge transfer reaction in a flowing afterglow and in a low-pressure chamber coupled with flowing afterglow. *Journal of Chemical Physics*, **1987**, 87, 325-330	3.9	19
6	Nascent vibrational and rotational distributions of NH(A 3Π, c 1Π) in the dissociative excitation of NH3 by Ar(3P2,0) at thermal energy. *Journal of Chemical Physics*, **1987**, 86, 163-169	3.9	23
5	The SiH+(A 1Σ⁺–X 1Σ⁺) emission produced from the thermal energy reaction of He+ with SiH4 under single collision conditions. *Journal of Chemical Physics*, **1987**, 86, 4952-4956	3.9	18

4	Vibrational distributions of CN(X 2□) resulting from the C(3P)+NO and C(3P)+N2O reactions at 300 K. *Journal of Chemical Physics*, **1986**, 84, 3739-3744	3.9	17
3	NO(A 2□□X2□) chemiluminescence from the reaction C(1D)+NO2 at 300 K. *Journal of Chemical Physics*, **1985**, 83, 2857-2859	3.9	2
2	Visible emission systems in silicon monoiodide.. *Journal of the Spectroscopical Society of Japan*, **1984**, 33, 29-32		1
1	Thermal energy charge□transfer reactions: He+2 with N2 and CO. *Journal of Chemical Physics*, **1983**, 79, 5368-5375	3.9	40