

M Samy El-Shall

List of Publications by Year in descending order

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222
papers

9,005
citations

44069

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49909

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docs citations

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times ranked

10698
citing authors

#	ARTICLE	IF	CITATIONS
1	Poly (hydroxyethyl methacrylate-co-hydroxyethyl acrylate) soft contact lenses for acetazolamide release. <i>Polymer Bulletin</i> , 2022, 79, 1535-1554.	3.3	5
2	Remediation of water containing phosphate using ceria nanoparticles decorated partially reduced graphene oxide (CeO ₂ -PRGO) composite. <i>Surfaces and Interfaces</i> , 2022, 31, 102006.	3.0	25
3	Formation of the oxonium phenol ion in the stepwise hydration of the phenyl cation in the gas phase. <i>Journal of Molecular Liquids</i> , 2021, 322, 114541.	4.9	3
4	Ligand-Protected Ultrasmall Pd Nanoclusters Supported on Metal Oxide Surfaces for CO Oxidation: Does the Ligand Activate or Passivate the Pd Nanocatalyst?. <i>ChemPhysChem</i> , 2021, 22, 312-322.	2.1	10
5	Efficient removal of heavy metals from polluted water with high selectivity for Hg(II) and Pb(II) by a 2-imino-4-thiobiuret chemically modified MIL-125 metal-organic framework. <i>RSC Advances</i> , 2021, 11, 13940-13950.	3.6	25
6	Polyacrylonitrile modified partially reduced graphene oxide composites for the extraction of Hg(II) ions from polluted water. <i>Journal of Materials Science</i> , 2021, 56, 7982-7999.	3.7	17
7	Co-Cu Bimetallic Metal Organic Framework Catalyst Outperforms the Pt/C Benchmark for Oxygen Reduction. <i>Journal of the American Chemical Society</i> , 2021, 143, 4064-4073.	13.7	175
8	Model of aerosol evolution in high supersaturated glycerol-air vapor mixtures. <i>Aerosol Science and Technology</i> , 2021, 55, 871-885.	3.1	6
9	High performance functionalized UiO metal organic frameworks for the efficient and selective adsorption of Pb(II) ions in concentrated multi-ion systems. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 105191.	6.7	35
10	Thiol- and Amine-Incorporated UiO-66-NH ₂ as an Efficient Adsorbent for the Removal of Mercury(II) and Phosphate Ions from Aqueous Solutions. <i>Industrial & Engineering Chemistry Research</i> , 2021, 60, 12675-12688.	3.7	31
11	Metal-free functionalized carbonized cotton for efficient solar steam generation and wastewater treatment. <i>RSC Advances</i> , 2021, 12, 1043-1050.	3.6	11
12	Effective removal of mercury(II) from aqueous solutions by chemically modified graphene oxide nanosheets. <i>Arabian Journal of Chemistry</i> , 2020, 13, 2659-2670.	4.9	66
13	Non-covalent interactions of hydrogen cyanide and acetonitrile with the quinoline radical cation via ionic hydrogen bonding. <i>Chemical Physics Letters</i> , 2020, 754, 137744.	2.6	3
14	Highly fluorescent hematoporphyrin modified graphene oxide for selective detection of copper ions in aqueous solutions. <i>Analytica Chimica Acta</i> , 2020, 1140, 111-121.	5.4	23
15	Melamine-based functionalized graphene oxide and zirconium phosphate for high performance removal of mercury and lead ions from water. <i>RSC Advances</i> , 2020, 10, 37883-37897.	3.6	28
16	Laser-assisted synthesis of gold-graphene oxide nanocomposites: effect of pulse duration. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 18294-18303.	2.8	10
17	Heterogeneous catalysis by ultra-small bimetallic nanoparticles surpassing homogeneous catalysis for carbon-carbon bond forming reactions. <i>Nanoscale</i> , 2020, 12, 19191-19202.	5.6	33
18	Multifunctional Binding Sites on Nitrogen-Doped Carboxylated Porous Carbon for Highly Efficient Adsorption of Pb(II), Hg(II), and Cr(VI) Ions. <i>ACS Omega</i> , 2020, 5, 33090-33100.	3.5	26

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19	Preparation, activity, and mechanism of ZnIn ₂ S ₄ -based catalysts for photocatalytic degradation of atrazine in aqueous solution. Journal of Water Process Engineering, 2020, 36, 101334.	5.6	17
20	Laser synthesis of magnetite-partially reduced graphene oxide nanocomposites for arsenate removal from water. Journal of Materials Science, 2020, 55, 5351-5363.	3.7	19
21	Green Synthesis of Oxide-Supported Pd Nanocatalysts by Laser Methods for Room-Temperature Carbon-Carbon Cross-Coupling Reactions. ACS Applied Materials & Interfaces, 2020, 12, 23844-23852.	8.0	23
22	Enhancement of the catalytic activity of Pd nanoparticles in Suzuki coupling by partial functionalization of the reduced graphene oxide support with p-phenylenediamine and benzidine. Journal of Catalysis, 2020, 385, 194-203.	6.2	28
23	Mechanisms of Formation of Nanoparticles in Aqueous Salt Solutions Under the Action of a High-Power Periodic Laser Radiation. Journal of Engineering Physics and Thermophysics, 2019, 92, 369-375.	0.6	1
24	Growth Mechanism of Sea Urchin ZnO Nanostructures in Aqueous Solutions and Their Photocatalytic Activity for the Degradation of Organic Dyes. ACS Omega, 2019, 4, 14013-14020.	3.5	24
25	Nucleation of Gold Nanoparticles in a Solution via Laser Hell: Simulation and Experiments. International Journal of Nanoscience, 2019, 18, 1940059.	0.7	2
26	One-step novel synthesis of CoFe ₂ O ₄ /graphene composites for organic dye removal. Journal of Sol-Gel Science and Technology, 2019, 89, 743-753.	2.4	13
27	Structures of benzonitrile dimer radical cation and the protonated dimer: Observation of hydronium ion core solvated by benzonitrile molecules. Journal of Chemical Physics, 2019, 150, 124303.	3.0	4
28	Ionic Hydrogen and Halogen Bonding in the Gas Phase Association of Acetonitrile and Acetone with Halogenated Benzene Cations. Journal of Physical Chemistry A, 2019, 123, 1363-1371.	2.5	9
29	Plasmonic Graphene Polyurethane Nanocomposites for Efficient Solar Water Desalination. ACS Applied Energy Materials, 2018, 1, 976-985.	5.1	94
30	Preparation and characterization of carbopol-silver nanocomposites for efficient antimicrobial applications. Polymers for Advanced Technologies, 2018, 29, 1107-1116.	3.2	4
31	Optical and physical properties of iridescent photonic crystals obtained by self-assembled polymethyl methacrylate nanospheres within graphene oxide nanoplatelets. Polymers for Advanced Technologies, 2018, 29, 244-253.	3.2	2
32	Formulation characterization and in vitro evaluation of acacia gum-calcium alginate beads for oral drug delivery systems. Polymers for Advanced Technologies, 2018, 29, 884-895.	3.2	16
33	Nucleation and growth of gold nanoparticles initiated by nanosecond and femtosecond laser irradiation of aqueous [AuCl ₄] ⁻ . Physical Chemistry Chemical Physics, 2018, 20, 28465-28475.	2.8	49
34	Plasmonic chemically modified cotton nanocomposite fibers for efficient solar water desalination and wastewater treatment. Nanoscale, 2018, 10, 18531-18539.	5.6	121
35	Tailoring the reducibility and catalytic activity of CuO nanoparticles for low temperature CO oxidation. RSC Advances, 2018, 8, 19499-19511.	3.6	70
36	Laser Synthesis of Carbonaceous TiO ₂ from Metal-Organic Frameworks: Optimum Support for Pd Nanoparticles for C-C Cross-Coupling Reactions. ACS Applied Nano Materials, 2018, 1, 4852-4862.	5.0	29

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37	Promotion effect of palladium on Co ₃ O ₄ incorporated within mesoporous MCM-41 silica for CO Oxidation. Applied Surface Science, 2017, 402, 99-107.	6.1	47
38	Observation of covalent and electrostatic bonds in nitrogen-containing polycyclic ions formed by gas phase reactions of the benzene radical cation with pyrimidine. Physical Chemistry Chemical Physics, 2017, 19, 6422-6432.	2.8	6
39	The continuous synthesis of Pd supported on Fe ₃ O ₄ nanoparticles: a highly effective and magnetic catalyst for CO oxidation. Green Processing and Synthesis, 2017, 6, .	3.4	6
40	The Effect of Graphene on Catalytic Performance of Palladium Nanoparticles Decorated with Fe ₃ O ₄ , Co ₃ O ₄ , and Ni (OH) ₂ : Potential Efficient Catalysts Used for Suzuki Cross-Coupling. Catalysis Letters, 2017, 147, 1510-1522.	2.6	26
41	Palladium Nanoparticles Supported on Ce-Metal-Organic Framework for Efficient CO Oxidation and Low-Temperature CO ₂ Capture. ACS Applied Materials & Interfaces, 2017, 9, 17961-17968.	8.0	93
42	Graphene oxide interface enhances the photochemical synthesis, stability and photothermal effect of plasmonic gold nanostructures. Chemical Physics Letters, 2017, 690, 153-158.	2.6	8
43	Efficient Removal of Heavy Metals from Polluted Water with High Selectivity for Mercury(II) by 2-Imino-4-thiobiurete-Partially Reduced Graphene Oxide (IT-PRGO). ACS Applied Materials & Interfaces, 2017, 9, 34230-34242.	8.0	134
44	Gas phase hydration of halogenated benzene cations. Is it hydrogen or halogen bonding?. Physical Chemistry Chemical Physics, 2017, 19, 18603-18611.	2.8	6
45	Nucleophilic Aromatic Addition in Ionizing Environments: Observation and Analysis of New C-N Valence Bonds in Complexes between Naphthalene Radical Cation and Pyridine. Journal of the American Chemical Society, 2017, 139, 11923-11932.	13.7	11
46	Palladium Nanoparticles Supported on a Metal-Organic Framework-Partially Reduced Graphene Oxide Hybrid for the Catalytic Hydrodeoxygenation of Vanillin as a Model for Biofuel Upgrade Reactions. ChemCatChem, 2017, 9, 469-480.	3.7	56
47	MODELING OF FORMATION AND GROWTH OF NANODROPLETS AT HIGH NUCLEATION RATES. , 2017, , 422-424.		1
48	Enhanced photothermal effect of surface oxidized silicon nanocrystals anchored to reduced graphene oxide nanosheets. Chemical Physics Letters, 2016, 650, 148-153.	2.6	8
49	Water inhibits CO oxidation on gold cations in the gas phase. Structures and binding energies of the sequential addition of CO, H ₂ O, O ₂ , and N ₂ onto Au ⁺ . Physical Chemistry Chemical Physics, 2016, 18, 28606-28616.	2.8	7
50	Synergetic catalysis of palladium nanoparticles encaged within amine-functionalized UiO-66 in the hydrodeoxygenation of vanillin in water. Green Chemistry, 2016, 18, 2900-2908.	9.0	175
51	Unconventional CH ⁺ -N hydrogen bonding interactions in the stepwise solvation of the naphthalene radical cation by hydrogen cyanide and acetonitrile molecules. Physical Chemistry Chemical Physics, 2016, 18, 2580-2590.	2.8	5
52	Self-organization of Au-CdSe hybrid nanoflowers at different length scales via bi-functional diamine linkers. Journal of Nanoparticle Research, 2016, 18, 1.	1.9	5
53	Growth kinetics and formation mechanisms of complex organics by sequential reactions of acetylene with ionized aromatics. International Journal of Mass Spectrometry, 2015, 377, 139-151.	1.5	5
54	Polyoxometalates confined in the mesoporous cages of metal-organic framework MIL-100(Fe): Efficient heterogeneous catalysts for esterification and acetalization reactions. Chemical Engineering Journal, 2015, 269, 236-244.	12.7	128

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55	What Is the Structure of the Naphthalene “Benzene Heterodimer Radical Cation? Binding Energy, Charge Delocalization, and Unexpected Charge-Transfer Interaction in Stacked Dimer and Trimer Radical Cations. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 1111-1118.	4.6	16
56	Palladium nanoparticles incorporated within sulfonic acid-functionalized MIL-101(Cr) for efficient catalytic conversion of vanillin. <i>Journal of Materials Chemistry A</i> , 2015, 3, 17008-17015.	10.3	107
57	Reduced graphene oxide doped with Ni/Pd nanoparticles for hydrogen storage application. <i>Journal of Industrial and Engineering Chemistry</i> , 2015, 30, 328-335.	5.8	38
58	Communication: Ion mobility of the radical cation dimers: (Naphthalene) ₂ ⁺ and naphthalene ⁺ -benzene: Evidence for stacked sandwich and T-shape structures. <i>Journal of Chemical Physics</i> , 2015, 142, 191102.	3.0	11
59	Highly efficient and magnetically recyclable graphene-supported Pd/Fe ₃ O ₄ nanoparticle catalysts for Suzuki and Heck cross-coupling reactions. <i>Applied Catalysis A: General</i> , 2015, 491, 58-69.	4.3	145
60	Noncovalent Interactions of Organic Ions with Polar Molecules in the Gas Phase. Challenges and Advances in Computational Chemistry and Physics, 2015, , 443-469.	0.6	4
61	Proton-bound dimers of nitrogen heterocyclic molecules: Substituent effects on the structures and binding energies of homodimers of diazine, triazine, and fluoropyridine. <i>Journal of Chemical Physics</i> , 2014, 140, 114313.	3.0	12
62	Unconventional hydrogen bonding to organic ions in the gas phase: Stepwise association of hydrogen cyanide with the pyridine and pyrimidine radical cations and protonated pyridine. <i>Journal of Chemical Physics</i> , 2014, 141, 054305.	3.0	18
63	Graphene-Supported, Iron-Based Nanoparticles for Catalytic Production of Liquid Hydrocarbons from Synthesis Gas: The Role of the Graphene Support in Comparison with Carbon Nanotubes. <i>ACS Catalysis</i> , 2014, 4, 535-545.	11.2	128
64	Direct observation of metal nanoparticles as heterogeneous nuclei for the condensation of supersaturated organic vapors: Nucleation of size-selected aluminum nanoparticles in acetonitrile and n-hexane vapors. <i>Journal of Chemical Physics</i> , 2014, 141, 054710.	3.0	5
65	Formation of Covalently Bonded Polycyclic Hydrocarbon Ions by Intracuster Polymerization of Ionized Ethynylbenzene Clusters. <i>Journal of Physical Chemistry A</i> , 2014, 118, 8251-8263.	2.5	10
66	Evidence for the Formation of Pyrimidine Cations from the Sequential Reactions of Hydrogen Cyanide with the Acetylene Radical Cation. <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 3392-3398.	4.6	29
67	Hydrogen bonding of the naphthalene radical cation to water and methanol and attachment of the naphthalene ion to extended hydrogen bonding chains. <i>Chemical Physics Letters</i> , 2014, 613, 45-53.	2.6	19
68	Metal-organic frameworks with high tungstophosphoric acid loading as heterogeneous acid catalysts. <i>Applied Catalysis A: General</i> , 2014, 487, 110-118.	4.3	72
69	Microwave-assisted synthesis of Pd nanoparticles supported on Fe ₃ O ₄ , Co ₃ O ₄ , and Ni(OH) ₂ nanoplates and catalysis application for CO oxidation. <i>Journal of Nanoparticle Research</i> , 2014, 16, 1.	1.9	32
70	P-Type Nitrogen-Doped ZnO Nanostructures with Controlled Shape and Doping Level by Facile Microwave Synthesis. <i>Langmuir</i> , 2014, 30, 2230-2240.	3.5	97
71	Laser-assisted synthesis of magnetic Fe/Fe ₂ O ₃ core: carbon-shell nanoparticles in organic solvents. <i>Journal of Nanoparticle Research</i> , 2013, 15, 1.	1.9	11
72	Hydration of the pyrimidine radical cation and stepwise solvation of protonated pyrimidine with water, methanol, and acetonitrile. <i>Journal of Chemical Physics</i> , 2013, 139, 084304.	3.0	20

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73	Hydrogen-Terminated Graphene by Laser Vaporization-Controlled Condensation of Graphite Oxide. Observation of Hydrogen-Capped Carbon Chains C_nH , C_nH^+ , and $C_nH_2^+$ ($n=1-10$) Tj ETQq1 1 0.784314 rg5T	3.1	190
74	Ultrasmall Gold Nanoparticles Anchored to Graphene and Enhanced Photothermal Effects by Laser Irradiation of Gold Nanostructures in Graphene Oxide Solutions. ACS Nano, 2013, 7, 627-636.	14.6	190
75	Microwave Synthesis of Metal Oxide Nanoparticles. , 2013, , 245-284.		12
76	Rapid synthesis of magnetic/luminescent (Fe ₃ O ₄ /CdSe) nanocomposites by microwave irradiation. Journal of Nanoparticle Research, 2013, 15, 1.	1.9	13
77	Substituent Effects on Noncovalent Bonds: Complexes of Ionized Benzene Derivatives with Hydrogen Cyanide. Journal of Physical Chemistry A, 2013, 117, 10588-10597.	2.5	7
78	Stepwise Association of Hydrogen Cyanide and Acetonitrile with the Benzene Radical Cation: Structures and Binding Energies of $(C_6H_6^+)(HCN)_n$, $n=1-6$, and $(C_6H_6^+)(CH_3CN)_n$, $n=1-4$, Clusters. Journal of Physical Chemistry A, 2013, 117, 1069-1078.	2.5	16
79	Formation of Nitrogen-Containing Polycyclic Cations by Gas-Phase and Intracuster Reactions of Acetylene with the Pyridinium and Pyrindinium Ions. Journal of the American Chemical Society, 2013, 135, 155-166.	13.7	21
80	Enhanced photocatalytic activity of ZnO-graphene nanocomposites prepared by microwave synthesis. Journal of Nanoparticle Research, 2012, 14, 1.	1.9	74
81	Formation of Complex Organics in the Gas Phase by Sequential Reactions of Acetylene with the Phenylum Ion. Journal of Physical Chemistry A, 2012, 116, 8925-8933.	2.5	16
82	Assembly of HCN hydrogen bonding chains in the gas phase. Binding energies and structures of phenylacetylene+(HCN) _n clusters, $n=1-4$. Chemical Physics Letters, 2012, 543, 23-27.	2.6	8
83	Highly Efficient Electron Field Emission from Graphene Oxide Sheets Supported by Nickel Nanotip Arrays. Nano Letters, 2012, 12, 1265-1268.	9.1	140
84	Pd-Partially Reduced Graphene Oxide Catalysts (Pd/PRGO): Laser Synthesis of Pd Nanoparticles Supported on PRGO Nanosheets for Carbon-Carbon Cross Coupling Reactions. ACS Catalysis, 2012, 2, 145-154.	11.2	280
85	MICROWAVE IRRADIATION ASSISTED GROWTH OF Cu, Ni, Co METALS AND/OR OXIDES NANOCLUSTERS AND THEIR CATALYTIC PERFORMANCE. Nano, 2012, 07, 1250034.	1.0	6
86	Acid catalyzed organic transformations by heteropoly tungstophosphoric acid supported on MCM-41. Applied Catalysis A: General, 2012, 411-412, 77-86.	4.3	106
87	Unconventional ionic hydrogen bonds: CH ₃ ⁺ (CC) binding energies and structures of benzene+(acetylene) ₁₋₄ clusters. Chemical Physics Letters, 2012, 523, 25-33.	2.6	13
88	Formation Mechanisms of Gold-Zinc Oxide Hexagonal Nanopyramids by Heterogeneous Nucleation using Microwave Synthesis. Langmuir, 2011, 27, 15146-15154.	3.5	93
89	Structure of the $C_8H_8^+$ Radical Cation Formed by Electron Impact Ionization of Acetylene Clusters. Evidence for a (Benzene ⁺ -Acetylene) Complex. Journal of Physical Chemistry Letters, 2011, 2, 2412-2419.	4.6	17
90	Ion mobility study of the mechanism of the gas phase thermal polymerization of styrene and the structures of the early oligomers. Polymer, 2011, 52, 5551-5559.	3.8	5

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91	Microwave-assisted synthesis of palladium nanoparticles supported on graphene: A highly active and recyclable catalyst for carbon-carbon cross-coupling reactions. <i>Journal of Catalysis</i> , 2011, 279, 1-11.	6.2	368
92	Structural and catalytic properties of ZnO and Al ₂ O ₃ nanostructures loaded with metal nanoparticles. <i>Journal of Nanoparticle Research</i> , 2011, 13, 7075-7083.	1.9	19
93	Hybrid Au-CdSe and Ag-CdSe Nanoflowers and Core-Shell Nanocrystals via One-Pot Heterogeneous Nucleation and Growth. <i>Small</i> , 2011, 7, 3299-3307.	10.0	50
94	Composite Nanoparticles: Hybrid Au-CdSe and Ag-CdSe Nanoflowers and Core-Shell Nanocrystals via One-Pot Heterogeneous Nucleation and Growth (<i>Small</i> 23/2011). <i>Small</i> , 2011, 7, 3298-3298.	10.0	0
95	Laser synthesis of Pt, Pd, CoO and Pd-CoO nanoparticle catalysts supported on graphene. <i>Chemical Physics Letters</i> , 2011, 510, 179-184.	2.6	96
96	Metal acetylene cluster ions M+(C ₂ H ₂) _n as model reactors for studying reactivity of laser-generated transition metal cations. <i>International Journal of Mass Spectrometry</i> , 2011, 300, 81-90.	1.5	20
97	Structure and hydration of the C ₄ H ₄ ⁺ ion formed by electron impact ionization of acetylene clusters. <i>Journal of Chemical Physics</i> , 2011, 134, 204315.	3.0	34
98	STRUCTURAL, OPTICAL AND GAS SENSING PROPERTIES OF ZnO, SnO ₂ AND ZTO NANOSTRUCTURES. <i>Nano</i> , 2010, 05, 185-194.	1.0	20
99	Growth Mechanism of Anisotropic Gold Nanocrystals via Microwave Synthesis: Formation of Dioleamide by Gold Nanocatalysis. <i>ACS Nano</i> , 2010, 4, 2766-2772.	14.6	102
100	Photothermal Deoxygenation of Graphite Oxide with Laser Excitation in Solution and Graphene-Aided Increase in Water Temperature. <i>Journal of Physical Chemistry Letters</i> , 2010, 1, 2804-2809.	4.6	267
101	Ligand-Controlled Microwave Synthesis of Cubic and Hexagonal CdSe Nanocrystals Supported on Graphene. Photoluminescence Quenching by Graphene. <i>Journal of Physical Chemistry C</i> , 2010, 114, 19920-19927.	3.1	83
102	Physicochemical, surface and catalytic properties of nanocrystalline CuO-NiO system as being influenced by doping with La ₂ O ₃ . <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2009, 345, 147-154.	4.7	12
103	Reactions between Aromatic Hydrocarbons and Heterocycles: Covalent and Proton-Bound Dimer Cations of Benzene/Pyridine. <i>Journal of the American Chemical Society</i> , 2009, 131, 10066-10076.	13.7	16
104	Metallic and bimetallic nanocatalysts incorporated into highly porous coordination polymer MIL-101. <i>Journal of Materials Chemistry</i> , 2009, 19, 7625.	6.7	277
105	Microwave synthesis of graphene sheets supporting metal nanocrystals in aqueous and organic media. <i>Journal of Materials Chemistry</i> , 2009, 19, 3832.	6.7	511
106	Microwave Synthesis of Bimetallic Nanoalloys and CO Oxidation on Ceria-Supported Nanoalloys. <i>Chemistry of Materials</i> , 2009, 21, 2825-2834.	6.7	180
107	A Conversation with John B. Fenn. <i>Annual Review of Analytical Chemistry</i> , 2009, 2, 1-11.	5.4	2
108	Growth and Characterization of ZnO, SnO ₂ and ZnO/SnO ₂ Nanostructures from the Vapor Phase. <i>Topics in Catalysis</i> , 2008, 47, 84-96.	2.8	23

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109	Nanocatalysis on Supported Oxides for CO Oxidation. Topics in Catalysis, 2008, 47, 22-31.	2.8	97
110	Synthesis and characterization of pure and ZrO ₂ -doped nanocrystalline CuO–NiO system. Applied Surface Science, 2008, 254, 1651-1660.	6.1	8
111	Fabrication of nanostructured nickel and titanium aluminides starting from elemental nanopowders. Materials Chemistry and Physics, 2008, 112, 1015-1020.	4.0	19
112	Laser synthesis of bimetallic nanoalloys in the vapor and liquid phases and the magnetic properties of PdM and PtM nanoparticles (M = Fe, Co and Ni). Faraday Discussions, 2008, 138, 163-180.	3.2	50
113	Vapor Phase Synthesis of Upconverting Y ₂ O ₃ Nanocrystals Doped with Yb ³⁺ , Er ³⁺ , Ho ³⁺ , and Tm ³⁺ to Generate Red, Green, Blue, and White Light. Journal of Physical Chemistry C, 2008, 112, 11527-11531.	3.1	102
114	Formation of rare-earth upconverting nanoparticles using laser vaporization controlled condensation. , 2008, , .		1
115	Gas phase hydration of organic ions. Physical Chemistry Chemical Physics, 2008, 10, 4827.	2.8	21
116	Polymerization in the Gas Phase, in Clusters, and on Nanoparticle Surfaces. Accounts of Chemical Research, 2008, 41, 783-792.	15.6	25
117	Formation of Complex Organics from Acetylene Catalyzed by Ionized Benzene. Journal of the American Chemical Society, 2008, 130, 12848-12849.	13.7	20
118	Gas Phase Reactions between Acetylene Radical Cation and Water. Energies, Structures and Formation Mechanism of C ₂ H ₃ O ⁺ and C ₂ H ₄ O ⁺ Ions. Journal of Physical Chemistry A, 2008, 112, 6066-6073.	2.5	12
119	Ion Mobility of Ground and Excited States of Laser-Generated Transition Metal Cations. Journal of Physical Chemistry A, 2008, 112, 1112-1124.	2.5	33
120	High-temperature characterization of reactively processed nanostructure nickel aluminide intermetallics. Journal of Alloys and Compounds, 2007, 440, 178-188.	5.5	13
121	Reactive processing of nanostructured nickel aluminide intermetallics starting from elemental nanopowders. Intermetallics, 2007, 15, 1057-1065.	3.9	11
122	Hydrogen Bonding Interactions of Pyridine–H ₂ O with Water: A Stepwise Solvation of Dicationic Cations. Journal of Physical Chemistry A, 2007, 111, 1006-1014.	2.5	26
123	Microwave Synthesis and Optical Properties of Uniform Nanorods and Nanoplates of Rare Earth Oxides. Journal of Physical Chemistry C, 2007, 111, 1861-1864.	3.1	162
124	Vapor phase nucleation on neutral and charged nanoparticles: Condensation of supersaturated trifluoroethanol on Mg nanoparticles. Journal of Chemical Physics, 2007, 126, 024706.	3.0	13
125	Stepwise hydration of ionized acetylene trimer. Further evidence for the formation of benzene radical cation. Chemical Physics Letters, 2007, 436, 25-29.	2.6	28
126	The role of method of preparation of CuO–NiO system on its physicochemical surface and catalytic properties. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2007, 311, 161-169.	4.7	28

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127	Heterogeneous Ion-induced Nucleation: Condensation of Supersaturated Vapors on Neutral and Charged Nanoparticles. , 2007, , 387-391.		0
128	Nanocatalysis on Tailored Shape Supports: Au and Pd Nanoparticles Supported on MgO Nanocubes and ZnO Nanobelts. Journal of Physical Chemistry B, 2006, 110, 21387-21393.	2.6	64
129	Polymerization of Ionized Acetylene Clusters into Covalent Bonded Ions: Evidence for the Formation of Benzene Radical Cation. Journal of the American Chemical Society, 2006, 128, 12408-12409.	13.7	47
130	Meteorite nanoparticles as models for interstellar grains: Synthesis and preliminary characterisation. Faraday Discussions, 2006, 133, 103.	3.2	20
131	Microwave Synthesis of Highly Aligned Ultra Narrow Semiconductor Rods and Wires. Journal of the American Chemical Society, 2006, 128, 2790-2791.	13.7	299
132	Reversible paramagnetism to ferromagnetism in transition metal-doped TiO ₂ nanocrystals prepared by microwave irradiation. Journal of Applied Physics, 2006, 100, 124307.	2.5	11
133	Vapor phase synthesis of supported Pd, Au, and unsupported bimetallic nanoparticle catalysts for CO oxidation. Catalysis Communications, 2006, 7, 281-284.	3.3	71
134	Associative Charge Transfer Reactions. Temperature Effects and Mechanism of the Gas-Phase Polymerization of Propene Initiated by a Benzene Radical Cation. Journal of Physical Chemistry A, 2006, 110, 8585-8592.	2.5	6
135	Early Stages of Styrene-Isoprene Copolymerization in Gas Phase Clusters Probed by Resonance Enhanced Multiphoton Ionization. Journal of Physical Chemistry A, 2006, 110, 4296-4298.	2.5	2
136	Catalyzed Radical Polymerization of Styrene Vapor on Nanoparticle Surfaces and the Incorporation of Metal and Metal Oxide Nanoparticles within Polystyrene Polymers. Journal of Physical Chemistry B, 2006, 110, 19100-19103.	2.6	14
137	Gas Phase Hydration and Deprotonation of the Cyclic C ₃ H ₃ +Cation. Solvation by Acetonitrile, and Comparison with the Benzene Radical Cation. Journal of Physical Chemistry A, 2006, 110, 7334-7344.	2.5	17
138	Vapor-phase synthesis of metallic and intermetallic nanoparticles and nanowires: Magnetic and catalytic properties. Pure and Applied Chemistry, 2006, 78, 1667-1689.	1.9	36
139	Nanoparticles in Astrochemistry: Synthesis and Characterization of Meteorite Dust Nanoparticles. AIP Conference Proceedings, 2006, , .	0.4	2
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