

M Samy El-Shall

List of Publications by Year in descending order

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222
papers

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citations

43973

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docs citations

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times ranked

10698
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#	ARTICLE	IF	CITATIONS
1	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
2	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.	3.1	368
3	Microwave Synthesis of Highly Aligned Ultra Narrow Semiconductor Rods and Wires. <i>Journal of the American Chemical Society</i> , 2006, 128, 2790-2791.	6.6	299
4	Pd-Partially Reduced Graphene Oxide Catalysts (Pd/PRGO): Laser Synthesis of Pd Nanoparticles Supported on PRGO Nanosheets for Carbon–Carbon Cross Coupling Reactions. <i>ACS Catalysis</i> , 2012, 2, 145-154.	5.5	280
5	Metallic and bimetallic nanocatalysts incorporated into highly porous coordination polymer MIL-101. <i>Journal of Materials Chemistry</i> , 2009, 19, 7625.	6.7	277
6	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.	2.1	267
7	Room-Temperature Synthesis and Characterization of Nanocrystalline CdS, ZnS, and CdxZn1-xS. <i>Chemistry of Materials</i> , 2002, 14, 3028-3033.	3.2	264
8	Ultrasmall Gold Nanoparticles Anchored to Graphene and Enhanced Photothermal Effects by Laser Irradiation of Gold Nanostructures in Graphene Oxide Solutions. <i>ACS Nano</i> , 2013, 7, 627-636.	7.3	190
9	Microwave Synthesis of Bimetallic Nanoalloys and CO Oxidation on Ceria-Supported Nanoalloys. <i>Chemistry of Materials</i> , 2009, 21, 2825-2834.	3.2	180
10	Synergetic catalysis of palladium nanoparticles encaged within amine-functionalized UiO-66 in the hydrodeoxygenation of vanillin in water. <i>Green Chemistry</i> , 2016, 18, 2900-2908.	4.6	175
11	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.	6.6	175
12	Microwave Synthesis of Supported Au and Pd Nanoparticle Catalysts for CO Oxidation. <i>Journal of Physical Chemistry B</i> , 2005, 109, 17350-17355.	1.2	165
13	Microwave Synthesis and Optical Properties of Uniform Nanorods and Nanoplates of Rare Earth Oxides. <i>Journal of Physical Chemistry C</i> , 2007, 111, 1861-1864.	1.5	162
14	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.	2.2	145
15	Highly Efficient Electron Field Emission from Graphene Oxide Sheets Supported by Nickel Nanotip Arrays. <i>Nano Letters</i> , 2012, 12, 1265-1268.	4.5	140
16	Efficient Removal of Heavy Metals from Polluted Water with High Selectivity for Mercury(II) by 2-Imino-4-thiobiuret–Partially Reduced Graphene Oxide (IT-PRGO). <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 34230-34242.	4.0	134
17	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.	5.5	128
18	Polyoxometalates confined in the mesoporous cages of metal–organic framework MIL-100(Fe): Efficient heterogeneous catalysts for esterification and acetalization reactions. <i>Chemical Engineering Journal</i> , 2015, 269, 236-244.	6.6	128

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19	Plasmonic chemically modified cotton nanocomposite fibers for efficient solar water desalination and wastewater treatment. <i>Nanoscale</i> , 2018, 10, 18531-18539.	2.8	121
20	Synthesis of Nanoscale Metal Oxide Particles Using Laser Vaporization/Condensation in a Diffusion Cloud Chamber. <i>The Journal of Physical Chemistry</i> , 1994, 98, 3067-3070.	2.9	107
21	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.	5.2	107
22	Acid catalyzed organic transformations by heteropoly tungstophosphoric acid supported on MCM-41. <i>Applied Catalysis A: General</i> , 2012, 411-412, 77-86.	2.2	106
23	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. <i>Journal of Physical Chemistry C</i> , 2008, 112, 11527-11531.	1.5	102
24	Growth Mechanism of Anisotropic Gold Nanocrystals via Microwave Synthesis: Formation of Dioleamide by Gold Nanocatalysis. <i>ACS Nano</i> , 2010, 4, 2766-2772.	7.3	102
25	Surface Oxidation and Luminescence Properties of Weblike Agglomeration of Silicon Nanocrystals Produced by a Laser Vaporization Controlled Condensation Technique. <i>Journal of Physical Chemistry B</i> , 1997, 101, 1794-1802.	1.2	99
26	Nanocatalysis on Supported Oxides for CO Oxidation. <i>Topics in Catalysis</i> , 2008, 47, 22-31.	1.3	97
27	P-Type Nitrogen-Doped ZnO Nanostructures with Controlled Shape and Doping Level by Facile Microwave Synthesis. <i>Langmuir</i> , 2014, 30, 2230-2240.	1.6	97
28	Laser synthesis of Pt, Pd, CoO and Pd-CoO nanoparticle catalysts supported on graphene. <i>Chemical Physics Letters</i> , 2011, 510, 179-184.	1.2	96
29	Plasmonic Graphene Polyurethane Nanocomposites for Efficient Solar Water Desalination. <i>ACS Applied Energy Materials</i> , 2018, 1, 976-985.	2.5	94
30	Formation Mechanisms of Gold-Zinc Oxide Hexagonal Nanopyramids by Heterogeneous Nucleation using Microwave Synthesis. <i>Langmuir</i> , 2011, 27, 15146-15154.	1.6	93
31	Palladium Nanoparticles Supported on Ce-Metal-Organic Framework for Efficient CO Oxidation and Low-Temperature CO ₂ Capture. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 17961-17968.	4.0	93
32	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.	1.5	83
33	Enhanced photocatalytic activity of ZnO-graphene nanocomposites prepared by microwave synthesis. <i>Journal of Nanoparticle Research</i> , 2012, 14, 1.	0.8	74
34	Metal-organic frameworks with high tungstophosphoric acid loading as heterogeneous acid catalysts. <i>Applied Catalysis A: General</i> , 2014, 487, 110-118.	2.2	72
35	Vapor phase synthesis of supported Pd, Au, and unsupported bimetallic nanoparticle catalysts for CO oxidation. <i>Catalysis Communications</i> , 2006, 7, 281-284.	1.6	71
36	Tailoring the reducibility and catalytic activity of CuO nanoparticles for low temperature CO oxidation. <i>RSC Advances</i> , 2018, 8, 19499-19511.	1.7	70

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37	Effective removal of mercury(II) from aqueous solutions by chemically modified graphene oxide nanosheets. <i>Arabian Journal of Chemistry</i> , 2020, 13, 2659-2670.	2.3	66
38	Nanocatalysis on Tailored Shape Supports: Au and Pd Nanoparticles Supported on MgO Nanocubes and ZnO Nanobelts. <i>Journal of Physical Chemistry B</i> , 2006, 110, 21387-21393.	1.2	64
39	Decay Dynamics and Quenching of Photoluminescence from Silicon Nanocrystals by Aromatic Nitro Compounds. <i>Journal of Physical Chemistry B</i> , 2001, 105, 59-66.	1.2	63
40	Gas-Phase Ion Mobilities and Structures of Benzene Cluster Cations (C ₆ H ₆) _n ⁺ , n = 2-6. <i>Journal of the American Chemical Society</i> , 2003, 125, 12001-12013.	6.6	62
41	Reactions and thermochemistry of protonated methanol clusters produced by electron impact ionization. <i>The Journal of Physical Chemistry</i> , 1992, 96, 2045-2051.	2.9	60
42	Synthesis and Photoluminescence of Weblike Agglomeration of Silica Nanoparticles. <i>The Journal of Physical Chemistry</i> , 1995, 99, 17805-17809.	2.9	58
43	Synthesis of Magnetic Intermetallic FeAl Nanoparticles from a Non-Magnetic Bulk Alloy. <i>Journal of Physical Chemistry B</i> , 2001, 105, 2085-2090.	1.2	56
44	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. <i>ChemCatChem</i> , 2017, 9, 469-480.	1.8	56
45	Stepwise Hydration of Ionized Aromatics. Energies, Structures of the Hydrated Benzene Cation, and the Mechanism of Deprotonation Reactions. <i>Journal of the American Chemical Society</i> , 2005, 127, 7053-7064.	6.6	54
46	Mass-Selected Ion Mobility Studies of the Isomerization of the Benzene Radical Cation and Binding Energy of the Benzene Dimer Cation. Separation of Isomeric Ions by Dimer Formation. <i>Journal of Physical Chemistry A</i> , 2003, 107, 7656-7666.	1.1	53
47	Synthesis and characterization of photochromic molybdenum and tungsten oxide nanoparticles. <i>Scripta Materialia</i> , 1999, 12, 215-219.	0.5	52
48	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). <i>Faraday Discussions</i> , 2008, 138, 163-180.	1.6	50
49	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.	5.2	50
50	Nucleation and growth of gold nanoparticles initiated by nanosecond and femtosecond laser irradiation of aqueous [AuCl ₄] ⁻ . <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 28465-28475.	1.3	49
51	Condensation of Supersaturated Vapors on Benzene Ions Generated by Resonant Two-Photon Ionization: A New Technique for Ion Nucleation. <i>The Journal of Physical Chemistry</i> , 1995, 99, 7867-7870.	2.9	48
52	Polymerization of Ionized Acetylene Clusters into Covalent Bonded Ions: Evidence for the Formation of Benzene Radical Cation. <i>Journal of the American Chemical Society</i> , 2006, 128, 12408-12409.	6.6	47
53	Promotion effect of palladium on Co ₃ O ₄ incorporated within mesoporous MCM-41 silica for CO Oxidation. <i>Applied Surface Science</i> , 2017, 402, 99-107.	3.1	47
54	Cationic polymerization within gas-phase clusters of isoprene. <i>The Journal of Physical Chemistry</i> , 1991, 95, 4932-4935.	2.9	41

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55	Oxidation states and magnetism of Fe nanoparticles prepared by a laser evaporation technique. <i>Journal of Applied Physics</i> , 1996, 79, 5063.	1.1	41
56	Title is missing!. <i>Journal of Cluster Science</i> , 1999, 10, 533-547.	1.7	38
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.	2.9	38
58	Stepwise Hydration and Multibody Deprotonation with Steep Negative Temperature Dependence in the Benzene ⁺ Water System. <i>Journal of the American Chemical Society</i> , 2004, 126, 12766-12767.	6.6	37
59	Vapor Phase Homogeneous Nucleation of Higher Alkanes: Dodecane, Hexadecane, and Octadecane. 1. Critical Supersaturation and Nucleation Rate Measurements. <i>Journal of Physical Chemistry B</i> , 2001, 105, 11866-11872.	1.2	36
60	Vapor-phase synthesis of metallic and intermetallic nanoparticles and nanowires: Magnetic and catalytic properties. <i>Pure and Applied Chemistry</i> , 2006, 78, 1667-1689.	0.9	36
61	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.	3.3	35
62	Kinetics of ion-induced nucleation in a vapor-gas mixture. <i>Journal of Chemical Physics</i> , 2005, 123, 104704.	1.2	34
63	Vapor phase synthesis and characterization of bimetallic alloy and supported nanoparticle catalysts. <i>Journal of Nanoparticle Research</i> , 2006, 8, 519-531.	0.8	34
64	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.	1.2	34
65	Ion Mobility of Ground and Excited States of Laser-Generated Transition Metal Cations. <i>Journal of Physical Chemistry A</i> , 2008, 112, 1112-1124.	1.1	33
66	Heterogeneous catalysis by ultra-small bimetallic nanoparticles surpassing homogeneous catalysis for carbon-carbon bond forming reactions. <i>Nanoscale</i> , 2020, 12, 19191-19202.	2.8	33
67	Comparative Polymerization in the Gas Phase and in Clusters. 2. Electron Impact and Multiphoton-Induced Reactions in Isobutene and Benzene/Isobutene Clusters. <i>Journal of the American Chemical Society</i> , 1995, 117, 7744-7752.	6.6	32
68	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.	0.8	32
69	Semiconductor Nanoparticles in Contact: Quenching of the Photoluminescence from Silicon Nanocrystals by WO ₃ Nanoparticles Suspended in Solution. <i>Journal of Physical Chemistry B</i> , 1998, 102, 7319-7322.	1.2	31
70	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.	1.8	31
71	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.	2.1	29
72	Laser Synthesis of Carbonaceous TiO ₂ from Metal-Organic Frameworks: Optimum Support for Pd Nanoparticles for C-C Cross-Coupling Reactions. <i>ACS Applied Nano Materials</i> , 2018, 1, 4852-4862.	2.4	29

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73	Ultrafine Metal Particles in Polymers and the Formation of Periodic Polymer Stripes. <i>Macromolecules</i> , 1995, 28, 8456-8458.	2.2	28
74	Stepwise hydration of ionized acetylene trimer. Further evidence for the formation of benzene radical cation. <i>Chemical Physics Letters</i> , 2007, 436, 25-29.	1.2	28
75	The role of method of preparation of CuO–NiO system on its physicochemical surface and catalytic properties. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2007, 311, 161-169.	2.3	28
76	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.	1.7	28
77	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. <i>Journal of Catalysis</i> , 2020, 385, 194-203.	3.1	28
78	Ion-molecule clustering thermochemistry by laser ionization high-pressure mass spectrometry. <i>The Journal of Physical Chemistry</i> , 1989, 93, 7969-7973.	2.9	27
79	The effect of carrier gas pressure on vapor phase nucleation experiments using a thermal diffusion cloud chamber. <i>Journal of Chemical Physics</i> , 1999, 111, 8496-8502.	1.2	27
80	Laser vaporization for the synthesis of nanoparticles and polymers containing metal particulates. <i>Applied Surface Science</i> , 1996, 106, 347-355.	3.1	26
81	Vapor Phase Growth and Assembly of Metallic, Intermetallic, Carbon, and Silicon Nanoparticle Filaments. <i>Journal of Physical Chemistry B</i> , 2003, 107, 2882-2886.	1.2	26
82	Hydrogen Bonding Interactions of Pyridine ⁺ with Water: A Stepwise Solvation of Distonic Cations. <i>Journal of Physical Chemistry A</i> , 2007, 111, 1006-1014.	1.1	26
83	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. <i>Catalysis Letters</i> , 2017, 147, 1510-1522.	1.4	26
84	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.	1.6	26
85	Nonbulk convergence of solvent spectral shifts in doped molecular clusters. <i>The Journal of Physical Chemistry</i> , 1991, 95, 8524-8528.	2.9	25
86	Polymerization in the Gas Phase, in Clusters, and on Nanoparticle Surfaces. <i>Accounts of Chemical Research</i> , 2008, 41, 783-792.	7.6	25
87	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.	1.7	25
88	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.	1.5	25
89	Gas phase reactions between titanium(1+) and isobutylene: cationic polymerization and observation of C ₄ H ₉ ⁺ (C ₄ H ₈) _n by high-pressure mass spectrometry. <i>The Journal of Physical Chemistry</i> , 1994, 98, 696-701.	2.9	24
90	Growth Mechanism of Sea Urchin ZnO Nanostructures in Aqueous Solutions and Their Photocatalytic Activity for the Degradation of Organic Dyes. <i>ACS Omega</i> , 2019, 4, 14013-14020.	1.6	24

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91	Growth and Characterization of ZnO, SnO ₂ and ZnO/SnO ₂ Nanostructures from the Vapor Phase. Topics in Catalysis, 2008, 47, 84-96.	1.3	23
92	Highly fluorescent hematoporphyrin modified graphene oxide for selective detection of copper ions in aqueous solutions. Analytica Chimica Acta, 2020, 1140, 111-121.	2.6	23
93	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.	4.0	23
94	Comparative Polymerization in the Gas Phase and in Clusters. 1. Covalent Dimer Formation and Entropy Barriers to Polymerization in Isobutene. Journal of the American Chemical Society, 1995, 117, 7737-7743.	6.6	22
95	Ionic charge-transfer complexes. 1. Cationic complexes with delocalized and partially localized π -systems. Journal of the American Chemical Society, 1986, 108, 4386-4390.	6.6	21
96	Gas phase hydration of organic ions. Physical Chemistry Chemical Physics, 2008, 10, 4827.	1.3	21
97	Formation of Nitrogen-Containing Polycyclic Cations by Gas-Phase and Intracuster Reactions of Acetylene with the Pyridinium and Pyrimidinium Ions. Journal of the American Chemical Society, 2013, 135, 155-166.	6.6	21
98	How sensitive are cluster compositions to energetics? A joint beam expansion/thermochemical study of water-methanol-trimethylamine clusters. The Journal of Physical Chemistry, 1992, 96, 507-510.	2.9	20
99	Meteorite nanoparticles as models for interstellar grains: Synthesis and preliminary characterisation. Faraday Discussions, 2006, 133, 103.	1.6	20
100	Formation of Complex Organics from Acetylene Catalyzed by Ionized Benzene. Journal of the American Chemical Society, 2008, 130, 12848-12849.	6.6	20
101	STRUCTURAL, OPTICAL AND GAS SENSING PROPERTIES OF ZnO, SnO ₂ AND ZTO NANOSTRUCTURES. Nano, 2010, 05, 185-194.	0.5	20
102	Metal acetylene cluster ions M+(C ₂ H ₂) _n as model reactors for studying reactivity of laser-generated transition metal cations. International Journal of Mass Spectrometry, 2011, 300, 81-90.	0.7	20
103	Hydration of the pyrimidine radical cation and stepwise solvation of protonated pyrimidine with water, methanol, and acetonitrile. Journal of Chemical Physics, 2013, 139, 084304.	1.2	20
104	Ionic charge-transfer complexes. 3. Delocalized π -systems as electron acceptors and donors. Dimer cations of naphthalene derivatives. The Journal of Physical Chemistry, 1987, 91, 1088-1095.	2.9	19
105	Ion nucleation as a detector: application of REMPI to generate selected ions in supersaturated vapors. Chemical Physics Letters, 1996, 259, 482-487.	1.2	19
106	Fabrication of nanostructured nickel and titanium aluminides starting from elemental nanopowders. Materials Chemistry and Physics, 2008, 112, 1015-1020.	2.0	19
107	Structural and catalytic properties of ZnO and Al ₂ O ₃ nanostructures loaded with metal nanoparticles. Journal of Nanoparticle Research, 2011, 13, 7075-7083.	0.8	19
108	Hydrogen bonding of the naphthalene radical cation to water and methanol and attachment of the naphthalene ion to extended hydrogen bonding chains. Chemical Physics Letters, 2014, 613, 45-53.	1.2	19

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109	Laser synthesis of magnetite-partially reduced graphene oxide nanocomposites for arsenate removal from water. <i>Journal of Materials Science</i> , 2020, 55, 5351-5363.	1.7	19
110	Even/Odd Alternation in Styrene Cluster Ions. Evidence for Multiple Cyclization during the Early Stages of Polymerization and the Inhibition Effect of Water. <i>Macromolecules</i> , 1996, 29, 8558-8561.	2.2	18
111	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.	1.2	18
112	Metal-Catalyzed Polymerization within Gas Phase Clusters: Al+/t-BuCl/Isobutylene System. <i>The Journal of Physical Chemistry</i> , 1995, 99, 5283-5290.	2.9	17
113	Concerted Reactions of Charge Transfer and Covalent Bond Formation in Ionized Alkylbenzene~Isobutene Clusters. Copolymerization of Styrene~Isobutene and $\dot{\pm}$ -Methylstyrene~Isobutene Clusters. <i>Journal of the American Chemical Society</i> , 1996, 118, 13058-13068.	6.6	17
114	Synthesis of Nanostructured Materials Using a Laser Vaporization~Condensation Technique. <i>ACS Symposium Series</i> , 1996, , 79-99.	0.5	17
115	Effect of atmospheric oxidation on the electronic and photoluminescence properties of silicon nanocrystal. <i>Pure and Applied Chemistry</i> , 2000, 72, 245-255.	0.9	17
116	Gas Phase Hydration and Deprotonation of the Cyclic C ₃ H ₃ ⁺ Cation. Solvation by Acetonitrile, and Comparison with the Benzene Radical Cation. <i>Journal of Physical Chemistry A</i> , 2006, 110, 7334-7344.	1.1	17
117	Structure of the C ₈ H ₈ ⁺ Radical Cation Formed by Electron Impact Ionization of Acetylene Clusters. Evidence for a (Benzene~Acetylene) Complex. <i>Journal of Physical Chemistry Letters</i> , 2011, 2, 2412-2419.	2.1	17
118	Preparation, activity, and mechanism of ZnIn ₂ S ₄ -based catalysts for photocatalytic degradation of atrazine in aqueous solution. <i>Journal of Water Process Engineering</i> , 2020, 36, 101334.	2.6	17
119	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.	1.7	17
120	Energy effects on cluster ion distributions: beam expansion and thermochemical studies on mixed clusters of methanol and acetonitrile. <i>Chemical Physics Letters</i> , 1991, 185, 193-198.	1.2	16
121	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.	6.6	16
122	Formation of Complex Organics in the Gas Phase by Sequential Reactions of Acetylene with the Phenylum Ion. <i>Journal of Physical Chemistry A</i> , 2012, 116, 8925-8933.	1.1	16
123	Stepwise Association of Hydrogen Cyanide and Acetonitrile with the Benzene Radical Cation: Structures and Binding Energies of (C ₆ H ₆ ⁺)(HCN) _n , <i>n</i> = 1~6, and (C ₆ H ₆ ⁺)(CH ₃ CN) _n , <i>n</i> = 1~4, <i>Clusters: Journal of Physical Chemistry A</i> , 2013, 117, 1069-1078.	1.1	16
124	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.	2.1	16
125	Formulation characterization and in vitro evaluation of acacia gum~calcium alginate beads for oral drug delivery systems. <i>Polymers for Advanced Technologies</i> , 2018, 29, 884-895.	1.6	16
126	Novel approach to cationic polymerization using pulsed-laser vaporization/ionization of metals. <i>Journal of the American Chemical Society</i> , 1993, 115, 4385-4386.	6.6	15

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127	Direct Evidence for the Gas Phase Thermal Polymerization of Styrene. Determination of the Initiation Mechanism and Structures of the Early Oligomers by Ion Mobility. <i>Journal of the American Chemical Society</i> , 2005, 127, 6164-6165.	6.6	15
128	Catalyzed Radical Polymerization of Styrene Vapor on Nanoparticle Surfaces and the Incorporation of Metal and Metal Oxide Nanoparticles within Polystyrene Polymers. <i>Journal of Physical Chemistry B</i> , 2006, 110, 19100-19103.	1.2	14
129	Observation of homogeneous gas-phase catalyzed vinyl polymerization. <i>The Journal of Physical Chemistry</i> , 1988, 92, 1021-1022.	2.9	13
130	Polymerization in clusters and in the gas phase using metal ions. <i>Zeitschrift für Physik D-Atoms Molecules and Clusters</i> , 1993, 26, 186-188.	1.0	13
131	Preparation, Characterization and Optical Properties of Zinc Oxide Nanoparticles. <i>Materials Research Society Symposia Proceedings</i> , 1996, 452, 389.	0.1	13
132	Experimental and theoretical study of benzene (acetonitrile) _n clusters, n=1-4. <i>Journal of Chemical Physics</i> , 2002, 116, 10253-10266.	1.2	13
133	High-temperature characterization of reactively processed nanostructure nickel aluminide intermetallics. <i>Journal of Alloys and Compounds</i> , 2007, 440, 178-188.	2.8	13
134	Vapor phase nucleation on neutral and charged nanoparticles: Condensation of supersaturated trifluoroethanol on Mg nanoparticles. <i>Journal of Chemical Physics</i> , 2007, 126, 024706.	1.2	13
135	Unconventional ionic hydrogen bonds: CH ⁺ ⋯C (CC) binding energies and structures of benzene+(acetylene) ₁₋₄ clusters. <i>Chemical Physics Letters</i> , 2012, 523, 25-33.	1.2	13
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