

# Mehran Mostafavi

## List of Publications by Year in descending order

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185  
papers

5,524  
citations

87843

38  
h-index

106281

65  
g-index

190  
all docs

190  
docs citations

190  
times ranked

4615  
citing authors

#	ARTICLE	IF	CITATIONS
1	Induced absorption in quartz by picosecond pulse of 8 MeV electrons. <i>Radiation Physics and Chemistry</i> , 2022, 190, 109833.	1.4	0
2	Modulation of the Directionality of Hole Transfer between the Base and the Sugar-Phosphate Backbone in DNA with the Number of Sulfur Atoms in the Phosphate Group. <i>Journal of Physical Chemistry B</i> , 2022, 126, 430-442.	1.2	2
3	Presolvated electron reactivity towards CO <sub>2</sub> and N <sub>2</sub> O in water. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 5804-5808.	1.3	5
4	The mystery of sub-picosecond charge transfer following irradiation of hydrated uridine monophosphate. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 21148-21162.	1.3	10
5	Confined water radiolysis in aluminosilicate nanotubes: the importance of charge separation effects. <i>Nanoscale</i> , 2021, 13, 3092-3105.	2.8	9
6	Real-Time Observation of Solvation Dynamics of Electron in Actinide Extraction Binary Solutions of Water and <i>n</i> -Tributyl Phosphate. <i>Journal of Physical Chemistry B</i> , 2021, 125, 3843-3849.	1.2	6
7	Selective Oxidation of Transient Organic Radicals in the Presence of Gold Nanoparticles. <i>Nanomaterials</i> , 2021, 11, 727.	1.9	6
8	Reaction Mechanisms of the Degradation of Fluoroethylene Carbonate, an Additive of Lithium-ion Batteries, Unraveled by Radiation Chemistry. <i>Chemistry - A European Journal</i> , 2021, 27, 8185-8194.	1.7	9
9	Radiolytic Approach for Efficient, Selective and Catalyst-free CO <sub>2</sub> Conversion at Room Temperature. <i>ChemPhysChem</i> , 2021, 22, 1900-1906.	1.0	9
10	Quasi-Free Electron-Mediated Radiation Sensitization by C5-Halopyrimidines. <i>Journal of Physical Chemistry A</i> , 2021, 125, 7967-7975.	1.1	7
11	Anisotropic Time-Resolved Dynamics of Crystal Growth Induced by a Single Laser Pulse Nucleation. <i>Crystal Growth and Design</i> , 2021, 21, 799-808.	1.4	3
12	Dose Rate Effects in Fluorescence Chemical Dosimeters Exposed to Picosecond Electron Pulses: An Accurate Measurement of Low Doses at High Dose Rates. <i>Radiation Research</i> , 2021, 197, .	0.7	2
13	Mechanism of organic radicals' oxidation catalysed by gold nanoparticles. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 26494-26500.	1.3	5
14	Mechanisms of metal nanoparticles nucleation and growth studied by radiolysis. <i>Radiation Physics and Chemistry</i> , 2020, 169, 107952.	1.4	39
15	Hot-Electron Photodynamics in Silver-Containing BEA-Type Nanozeolite Studied by Femtosecond Transient Absorption Spectroscopy. <i>ChemPhysChem</i> , 2020, 21, 2634-2643.	1.0	2
16	One Way Traffic: Base-to-Backbone Hole Transfer in Nucleoside Phosphorodithioate. <i>Chemistry - A European Journal</i> , 2020, 26, 9407-9407.	1.7	0
17	Hydrated electrons induce the formation of interstrand cross-links in DNA modified by cisplatin adducts. <i>Journal of Radiation Research</i> , 2020, 61, 343-351.	0.8	2
18	On the Primary Water Radicals™ Production in the Presence of Gold Nanoparticles: Electron Pulse Radiolysis Study. <i>Nanomaterials</i> , 2020, 10, 2478.	1.9	9

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19	Oxidation of Silver Cyanide $\text{Ag}(\text{CN})_2$ by the OH Radical: From <i>Ab Initio</i> Calculation to Molecular Simulation and to Experiment. <i>Journal of Physical Chemistry A</i> , 2020, 124, 10787-10798.	1.1	2
20	Pulse radiolysis study on the reactivity of $\text{NO}_3$ radical toward uranous( <sup>IV</sup> ), hydrazinium nitrate and hydroxyl ammonium nitrate at room temperature and at 45 °C. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 5188-5197.	1.3	7
21	One Way Traffic: Base-to-Backbone Hole Transfer in Nucleoside Phosphorodithioate. <i>Chemistry - A European Journal</i> , 2020, 26, 9495-9505.	1.7	4
22	Key Role of the Oxidized Citrate-Free Radical in the Nucleation Mechanism of the Metal Nanoparticle Turkevich Synthesis. <i>Journal of Physical Chemistry C</i> , 2019, 123, 22624-22633.	1.5	10
23	Mechanism of $(\text{SCN})_2$ Formation and Decay in Neutral and Basic KSCN Solution under Irradiation from a Pico- to Microsecond Range. <i>Journal of Physical Chemistry B</i> , 2019, 123, 6599-6608.	1.2	6
24	Ultrafast Processes Occurring in Radiolysis of Highly Concentrated Solutions of Nucleosides/Tides. <i>International Journal of Molecular Sciences</i> , 2019, 20, 4963.	1.8	26
25	Observation of dissociative quasi-free electron attachment to nucleoside via excited anion radical in solution. <i>Nature Communications</i> , 2019, 10, 102.	5.8	55
26	<sup>137</sup> I-Radiolysis preparation of nanometer-sized cadmium sulphide quantum dots stabilized in nanozeolite X and ZSM-5. <i>New Journal of Chemistry</i> , 2018, 42, 5465-5470.	1.4	2
27	Direct observation of the oxidation of DNA bases by phosphate radicals formed under radiation: a model of the backbone-to-base hole transfer. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 14927-14937.	1.3	20
28	Decoding the Three-Pronged Mechanism of $\text{NO}_3$ Radical Formation in $\text{HNO}_3$ Solutions at 22 and 80 °C Using Picosecond Pulse Radiolysis. <i>Journal of Physical Chemistry B</i> , 2018, 122, 2121-2129.	1.2	17
29	Ultrafast Chemistry of Water Radical Cation, $\text{H}_2\text{O}^+$ , in Aqueous Solutions. <i>Molecules</i> , 2018, 23, 244.	1.7	67
30	Time-dependent yield of the hydrated electron and the hydroxyl radical in $\text{D}_2\text{O}$ : a picosecond pulse radiolysis study. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 15671-15679.	1.3	25
31	Naked Gold Nanoparticles and hot Electrons in Water. <i>Scientific Reports</i> , 2018, 8, 7258.	1.6	8
32	Ultrafast Electron Attachment and Hole Transfer Following Ionizing Radiation of Aqueous Uridine Monophosphate. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 5105-5109.	2.1	26
33	Picosecond Pulse Radiolysis Study on the Radiation-Induced Reactions in Neat Tributyl Phosphate. <i>Journal of Physical Chemistry B</i> , 2018, 122, 7134-7142.	1.2	11
34	Reaction mechanisms in swelling clays under ionizing radiation: influence of the water amount and of the nature of the clay mineral. <i>RSC Advances</i> , 2017, 7, 526-534.	1.7	47
35	Degradation of an Ethylene Carbonate/Diethyl Carbonate Mixture by Using Ionizing Radiation. <i>ChemPhysChem</i> , 2017, 18, 2799-2806.	1.0	19
36	Synthesis of Metal Nanoparticles and Patterning in Polymeric Films Induced by Electron Nanobeam. <i>Journal of Physical Chemistry C</i> , 2017, 121, 5335-5340.	1.5	2

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37	Ultra-fast charge migration competes with proton transfer in the early chemistry of $\text{H}_2\text{O}^{\ddagger}$ . <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 2894-2899.	1.3	17
38	Observation and Simulation of Transient Anion Oligomers $(\text{LiClO}_4)_n^{\ominus}$ ( $n = 1-4$ ) in Diethyl Carbonate $\text{LiClO}_4$ Solutions. <i>Journal of Physical Chemistry B</i> , 2017, 121, 7464-7472.	1.2	1
39	Effect of the solvation state of electron in dissociative electron attachment reaction in aqueous solutions. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 23068-23077.	1.3	10
40	Reactivity of prehydrated electrons toward nucleobases and nucleotides in aqueous solution. <i>Science Advances</i> , 2017, 3, e1701669.	4.7	67
41	Decay Mechanism of $\text{NO}_3^{\cdot}$ Radical in Highly Concentrated Nitrate and Nitric Acidic Solutions in the Absence and Presence of Hydrazine. <i>Journal of Physical Chemistry B</i> , 2016, 120, 5008-5014.	1.2	26
42	Role of $\text{PF}_6^-$ in the radiolytical and electrochemical degradation of propylene carbonate solutions. <i>Journal of Power Sources</i> , 2016, 326, 285-295.	4.0	16
43	Ultrafast Scavenging of the Precursor of $\text{H}^{\cdot}$ Atom, ( $e^{\ominus}$ ), <i>J. Phys. Chem. Lett.</i> 2016, 7, 9060-9066.	1.2	9
44	Radiation-Induced Chemical Reactions in Hydrogel of Hydroxypropyl Cellulose (HPC): A Pulse Radiolysis Study. <i>Radiation Research</i> , 2016, 186, 650-658.	0.7	4
45	Identification of Transient Radical Anions $(\text{LiClO}_4)_n^{\ominus}$ ( $n = 1-3$ ) in THF Solutions: Experimental and Theoretical Investigation on Electron Localization in Oligomers. <i>Journal of Physical Chemistry B</i> , 2016, 120, 773-784.	1.2	11
46	Transient electrochemistry: beyond simply temporal resolution. <i>Chemical Communications</i> , 2016, 52, 251-263.	2.2	42
47	Picosecond Pulse Radiolysis of Propylene Carbonate as a Solute in Water and as a Solvent. <i>Journal of Physical Chemistry B</i> , 2016, 120, 2388-2396.	1.2	6
48	Picosecond Pulse Radiolysis of Highly Concentrated Carbonate Solutions. <i>Journal of Physical Chemistry B</i> , 2016, 120, 2434-2439.	1.2	10
49	Ultrafast Decay of the Solvated Electron in a Neat Polar Solvent: The Unusual Case of Propylene Carbonate. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 186-190.	2.1	8
50	Oxidation and/or reduction of manganese species by $\gamma$ -ray and $\text{He}^{2+}$ particle irradiation in highly concentrated carbonate media. <i>Radiation Physics and Chemistry</i> , 2016, 119, 142-150.	1.4	5
51	Electrolytes Ageing in Lithium-ion Batteries: A Mechanistic Study from Picosecond to Long Timescales. <i>ChemSusChem</i> , 2015, 8, 3605-3616.	3.6	21
52	Deciphering the reaction between a hydrated electron and a hydronium ion at elevated temperatures. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 22934-22939.	1.3	1
53	Picosecond Pulse Radiolysis of Highly Concentrated Phosphoric Acid Solutions: Mechanism of Phosphate Radical Formation. <i>Journal of Physical Chemistry B</i> , 2015, 119, 7180-7185.	1.2	22
54	Radiosensitization of DNA by Cisplatin Adducts Results from an Increase in the Rate Constant for the Reaction with Hydrated Electrons and Formation of $\text{Pt}^{\cdot}$ . <i>Journal of Physical Chemistry B</i> , 2015, 119, 9496-9500.	1.2	17

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55	Scavenging the Water Cation in Concentrated Acidic Solutions. <i>Journal of Physical Chemistry A</i> , 2015, 119, 10629-10636.	1.1	15
56	Guanosine radical reactivity explored by pulse radiolysis coupled with transient electrochemistry. <i>Chemical Communications</i> , 2015, 51, 9089-9092.	2.2	5
57	Unexpected Ultrafast Silver Ion Reduction: Dynamics Driven by the Solvent Structure. <i>Journal of Physical Chemistry B</i> , 2015, 119, 10096-10101.	1.2	18
58	State of Fukushima nuclear fuel debris tracked by Cs137 in cooling water. <i>Environmental Sciences: Processes and Impacts</i> , 2014, 16, 2472-2476.	1.7	14
59	Direct Evidence for Transient Pair Formation between a Solvated Electron and $H_{3}O^{+}$ Observed by Picosecond Pulse Radiolysis. <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 2219-2223.	2.1	22
60	Capturing the Formation of Sub-nanometer Sized CdS Clusters in LTL Zeolite. <i>Journal of Physical Chemistry C</i> , 2014, 118, 6324-6334.	1.5	13
61	Electron Transfer at Oxide/Water Interfaces Induced by Ionizing Radiation. <i>Journal of Physical Chemistry C</i> , 2014, 118, 7865-7873.	1.5	31
62	Reactivity of the Strongest Oxidizing Species in Aqueous Solutions: The Short-Lived Radical Cation $H_{2}O^{\bullet+}$ . <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 258-261.	2.1	40
63	Picosecond Pulse Radiolysis of Highly Concentrated Sulfuric Acid Solutions: Evidence for the Oxidation Reactivity of Radical Cation $H_{2}O^{\bullet+}$ . <i>Journal of Physical Chemistry A</i> , 2014, 118, 4030-4037.	1.1	18
64	Photoreduction of $Ag^{+}$ by diethylaniline in colloidal zeolite nanocrystals. <i>Microporous and Mesoporous Materials</i> , 2014, 194, 183-189.	2.2	11
65	A Broadband Ultrafast Transient Absorption Spectrometer Covering the Range from Near-Infrared (NIR) down to Green. <i>Applied Spectroscopy</i> , 2014, 68, 1137-1147.	1.2	16
66	Radiation-induced synthesis of metal nanoparticles in ethers THF and PGMEA. <i>Radiation Physics and Chemistry</i> , 2013, 91, 148-155.	1.4	15
67	Oxidation of Bromide Ions by Hydroxyl Radicals: Spectral Characterization of the Intermediate $BrOH^{\bullet}$ . <i>Journal of Physical Chemistry A</i> , 2013, 117, 877-887.	1.1	36
68	Concomitant transient electrochemical and spectroscopic detection with electron pulse radiolysis. <i>Electrochemistry Communications</i> , 2013, 35, 149-151.	2.3	5
69	Spur Reactions Observed by Picosecond Pulse Radiolysis in Highly Concentrated Bromide Aqueous Solutions. <i>Journal of Physical Chemistry A</i> , 2013, 117, 2287-2293.	1.1	19
70	Picosecond Pulse Radiolysis of the Liquid Diethyl Carbonate. <i>Journal of Physical Chemistry A</i> , 2013, 117, 10801-10810.	1.1	18
71	Reduction of Earth Alkaline Metal Salts in THF Solution Studied by Picosecond Pulse Radiolysis. <i>Journal of Physical Chemistry A</i> , 2013, 117, 14048-14055.	1.1	5
72	Picosecond Pulse Radiolysis Study of Highly Concentrated Nitric Acid Solutions: Formation Mechanism of $NO_{3}^{\bullet}$ Radical. <i>Journal of Physical Chemistry A</i> , 2012, 116, 7302-7307.	1.1	39

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73	Transient absorption induced by a picosecond electron pulse in the fused silica windows of an optical cell. <i>Radiation Physics and Chemistry</i> , 2012, 81, 1715-1719.	1.4	23
74	Homogeneous Nucleation-Growth Dynamics Induced by Single Laser Pulse in Supersaturated Solutions. <i>Crystal Growth and Design</i> , 2012, 12, 5980-5985.	1.4	15
75	Competition Reactions of $\text{H}_2\text{O}^{\bullet+}$ Radical in Concentrated $\text{Cl}^{\ominus}$ Aqueous Solutions: Picosecond Pulse Radiolysis Study. <i>Journal of Physical Chemistry A</i> , 2012, 116, 11509-11518.	1.1	33
76	Picosecond Pulse Radiolysis Study on the Distance Dependent Reaction of the Solvated Electron with Organic Molecules in Ethylene Glycol. <i>Journal of Physical Chemistry A</i> , 2012, 116, 11989-11996.	1.1	6
77	Direct and Indirect Radiolytic Effects in Highly Concentrated Aqueous Solutions of Bromide. <i>Journal of Physical Chemistry A</i> , 2011, 115, 4326-4333.	1.1	20
78	Temperature Dependent Absorption Spectra of $\text{Br}^{\bullet}$ , $\text{Br}_2^{\bullet-}$ , and $\text{Br}_3^{\bullet-}$ in Aqueous Solutions. <i>Journal of Physical Chemistry A</i> , 2011, 115, 4241-4247.	1.1	13
79	Time-Dependent Radiolytic Yield of $\text{OH}^{\bullet}$ Radical Studied by Picosecond Pulse Radiolysis. <i>Journal of Physical Chemistry A</i> , 2011, 115, 12212-12216.	1.1	43
80	Mechanism of Trivalent Gold Reduction and Reactivity of Transient Divalent and Monovalent Gold Ions Studied by Gamma and Pulse Radiolysis. <i>Journal of Physical Chemistry A</i> , 2011, 115, 383-391.	1.1	67
81	Picosecond Pulse Radiolysis of Direct and Indirect Radiolytic Effects in Highly Concentrated Halide Aqueous Solutions. <i>Journal of Physical Chemistry A</i> , 2011, 115, 9151-9159.	1.1	31
82	$\text{H}_2$ production by $\text{I}^3$ and He ions water radiolysis, effect of presence $\text{TiO}_2$ nanoparticles. <i>International Journal of Hydrogen Energy</i> , 2011, 36, 14342-14348.	3.8	24
83	An Overview of Solvated Electrons: Recent Advances. , 2010, , 21-58.		12
84	Bimetallic Au-Pt nanoparticles synthesized by radiolysis: Application in electro-catalysis. <i>Gold Bulletin</i> , 2010, 43, 49-56.	3.2	59
85	Solvated Electron Scavenging by Metal Cations: A Microscopic Picture Derived from the Transient Effect. , 2010, , .		0
86	Subnanometer CdS Clusters Self-Confined in MFI-Type Zeolite Nanoparticles and Thin Films. <i>Langmuir</i> , 2010, 26, 4459-4464.	1.6	14
87	Elucidation of Pt Clusters in the Micropores of Zeolite Nanoparticles Assembled in Thin Films. <i>Journal of Physical Chemistry C</i> , 2010, 114, 20974-20982.	1.5	31
88	Radiolytic Yield of $\text{U}^{\text{IV}}$ Oxidation into $\text{U}^{\text{VI}}$ : A New Mechanism for $\text{U}^{\text{V}}$ Reactivity in Acidic Solution. <i>Journal of Physical Chemistry A</i> , 2010, 114, 2080-2085.	1.1	11
89	Distance Dependence of the Reaction Rate for the Reduction of Metal Cations by Solvated Electrons: A Picosecond Pulse Radiolysis Study. <i>Journal of Physical Chemistry A</i> , 2010, 114, 12042-12051.	1.1	28
90	First Observation of Picosecond Kinetics of Hydrated Electrons in Supercritical Water. <i>Journal of Physical Chemistry Letters</i> , 2010, 1, 331-335.	2.1	44

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91	Ultrafast Pulse Radiolysis Methods. , 2010, , 121-160.		14
92	Preparation of Colloidal BEA Zeolite Functionalized with Pd Aggregates as a Precursor for Low Dimensionality Sensing Layer. Sensor Letters, 2010, 8, 497-501.	0.4	6
93	Time-Resolved Study on Nonhomogeneous Chemistry Induced by Ionizing Radiation with Low Linear Energy Transfer in Water and Polar Solvents at Room Temperature. , 2010, , 289-324.		3
94	Non-invasive single bunch monitoring for ps pulse radiolysis. Radiation Physics and Chemistry, 2009, 78, 1099-1101.	1.4	13
95	Nanosecond probing of the early nucleation steps of silver atoms in colloidal zeolite by pulse radiolysis and flash photolysis techniques. Research on Chemical Intermediates, 2009, 35, 379-388.	1.3	11
96	Single shot linear detection of $0.01 \text{--} 10$ THz electromagnetic fields. Applied Physics B: Lasers and Optics, 2009, 94, 95-101.	1.1	31
97	Radiolytic formation of tribromine ion $\text{Br}_3^{\cdot-}$ in aqueous solutions, a system for steady-state dosimetry. Radiation Physics and Chemistry, 2009, 78, 106-111.	1.4	23
98	Structural and Optical Properties of PbS Nanoparticles Synthesized by the Radiolytic Method. Journal of Physical Chemistry C, 2009, 113, 8050-8057.	1.5	59
99	Pulse Radiolysis Studies on the Temperature-Dependent Spectrum and the Time-Dependent Yield of Solvated Electron in Propane-1,2,3-triol. Journal of Physical Chemistry A, 2009, 113, 12193-12198.	1.1	7
100	Aqueous Solution of $\text{UCl}_6^{2+}$ in $\text{O}_2$ Saturated Acidic Medium: An Efficient System To Scavenge All Primary Radicals in Spurs Produced by Irradiation. Journal of Physical Chemistry A, 2009, 113, 949-951.	1.1	4
101	Single Shot Linear Detection of THz Electromagnetic Fields on the fs to ps Scale. Springer Series in Chemical Physics, 2009, , 669-671.	0.2	0
102	Au-Fe system: application in electro-catalysis. Gold Bulletin, 2008, 41, 98-104.	3.2	14
103	Temperature effect on the absorption spectrum of the hydrated electron paired with a metallic cation in deuterated water. Radiation Physics and Chemistry, 2008, 77, 1198-1202.	1.4	6
104	Comparison of solvation dynamics of electrons in four polyols. Radiation Physics and Chemistry, 2008, 77, 1183-1189.	1.4	5
105	Scavenging of $e^-$ and OH radicals in concentrated HCl and NaCl aqueous solutions. Chemical Physics Letters, 2008, 460, 461-465.		
106	Formation and solvation dynamics of electrons in polyols. Journal of Molecular Liquids, 2008, 141, 124-129.	2.3	9
107	Solvation Dynamics of Electron Produced by Two-Photon Ionization of Liquid Polyols. III. Glycerol. Journal of Physical Chemistry A, 2008, 112, 1880-1886.	1.1	18
108	Palladium nanostructures synthesized by radiolysis or by photoreduction. New Journal of Chemistry, 2008, 32, 1403.	1.4	31

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109	Solvation Dynamics of Electron Produced by Two-Photon Ionization of Liquid Polyols. II. Propanediols. <i>Journal of Physical Chemistry A</i> , 2007, 111, 4902-4913.	1.1	18
110	Temperature Effect on the Absorption Spectrum of the Hydrated Electron Paired with a Lithium Cation in Deuterated Water. <i>Journal of Physical Chemistry A</i> , 2007, 111, 3548-3553.	1.1	11
111	Time-dependent radiolytic yields at room temperature and temperature-dependent absorption spectra of the solvated electrons in polyols. <i>Nuclear Science and Techniques/Hewuli</i> , 2007, 18, 2-9.	1.3	2
112	Kinetics study of the solvated electron decay in THF using laser-synchronised picosecond electron pulse. <i>Nuclear Science and Techniques/Hewuli</i> , 2007, 18, 10-15.	1.3	4
113	Diverse copper clusters confined in microporous nanocrystals. <i>Sensors and Actuators B: Chemical</i> , 2007, 126, 338-343.	4.0	13
114	Colloidal Zeolites as Host Matrix for Copper Nanoclusters. <i>Chemistry of Materials</i> , 2006, 18, 3373-3380.	3.2	33
115	Solvation Dynamics of the Electron Produced by Two-Photon Ionization of Liquid Polyols. 1. Ethylene Glycol. <i>Journal of Physical Chemistry A</i> , 2006, 110, 1705-1717.	1.1	26
116	Time-Dependent Radiolytic Yields of the Solvated Electrons in 1,2-Ethanediol, 1,2-Propanediol, and 1,3-Propanediol from Picosecond to Microsecond. <i>Journal of Physical Chemistry A</i> , 2006, 110, 11404-11410.	1.1	15
117	Bimetallic Au-Pd and Ag-Pd Clusters Synthesised by $\gamma$ or Electron Beam Radiolysis and Study of the Reactivity/Structure Relationships in the Selective Hydrogenation of Buta-1,3-Diene. <i>Oil and Gas Science and Technology</i> , 2006, 61, 789-797.	1.4	59
118	Radiolytic synthesis and optical properties of ultra-small stabilized ZnS nanoparticles. <i>Chemical Physics Letters</i> , 2006, 422, 25-29.	1.2	68
119	Geminate recombination measurements of solvated electron in THF using laser-synchronized picosecond electron pulse. <i>Chemical Physics Letters</i> , 2006, 423, 30-34.	1.2	28
120	Hydrated electron decay measurements with picosecond pulse radiolysis at elevated temperatures up to 350°C. <i>Chemical Physics Letters</i> , 2006, 424, 77-81.	1.2	21
121	Radiolytic reduction of Fe(II) in 2-propanol. <i>Chemical Physics Letters</i> , 2006, 431, 83-87.	1.2	14
122	Time-resolved spectroscopy at the picosecond laser-triggered electron accelerator ELYSE. <i>Radiation Physics and Chemistry</i> , 2006, 75, 1024-1033.	1.4	81
123	Absolute calibration for a broad range single shot electron spectrometer. <i>Review of Scientific Instruments</i> , 2006, 77, 103301.	0.6	124
124	Comparative study of metal clusters induced in aqueous solutions by $\hat{1}^3$ -rays, electron or C6+ ion beam irradiation. <i>Radiation Physics and Chemistry</i> , 2005, 72, 575-586.	1.4	82
125	Absorption spectrum of the hydrated electron paired with nonreactive metal cations. <i>Radiation Physics and Chemistry</i> , 2005, 74, 288-296.	1.4	29
126	ELYSE—A picosecond electron accelerator for pulse radiolysis research. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2005, 539, 527-539.	0.7	100



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127	Temperature dependence of the solvated electron absorption spectra in propanediols. <i>Chemical Physics Letters</i> , 2005, 402, 192-196.	1.2	13
128	Molecular dynamics simulations of the temperature and density dependence of the absorption spectra of hydrated electron and solvated silver atom in water. <i>Chemical Physics Letters</i> , 2005, 409, 219-223.	1.2	14
129	Radiolysis of silver ion solutions in ethylene glycol: solvated electron and radical scavenging yields. <i>Radiation Physics and Chemistry</i> , 2005, 72, 111-118.	1.4	69
130	Temperature-dependent absorption spectra of the solvated electron in ethylene glycol at 100 atm studied by pulse radiolysis from 296 to 598 K. <i>Chemical Physics Letters</i> , 2004, 384, 52-55.	1.2	19
131	Raman scattering from single Ag aggregates in presence of EDTA. <i>Chemical Physics Letters</i> , 2004, 386, 244-247.	1.2	26
132	Formation and geminate recombination of solvated electron upon two-photon ionisation of ethylene glycol. <i>Chemical Physics Letters</i> , 2004, 394, 313-317.	1.2	10
133	First Observation of Electron Paired with Divalent and Trivalent Nonreactive Metal Cations in Water. <i>Journal of Physical Chemistry A</i> , 2004, 108, 6817-6819.	1.1	16
134	Pulse Radiolysis Study of Solvated Electron Pairing with Alkaline Earth Metals in Tetrahydrofuran. 3. Splitting of p-Like Excited States of Solvated Electron Perturbed by Metal Cations. <i>Journal of Physical Chemistry A</i> , 2004, 108, 987-995.	1.1	11
135	Solvation dynamics of electron in ethylene glycol at 300 K. , 2004, , 241-244.		6
136	Signal Raman de molécules uniques en présence d'agrégats d'argent structurés. <i>European Physical Journal Special Topics</i> , 2004, 119, 205-206.	0.2	0
137	Solvated Electron Pairing with Earth Alkaline Metals in THF 2Reactivity of the (MgII, es-) Pair with Aromatic and Halogenated Hydrocarbon Compounds. <i>Journal of Physical Chemistry A</i> , 2003, 107, 6587-6593.	1.1	17
138	Solvated Electron Pairing with Earth Alkaline Metals in THF. 1. Formation and Structure of the Pair with Divalent Magnesium. <i>Journal of Physical Chemistry A</i> , 2003, 107, 1506-1516.	1.1	23
139	L'accélérateur d'électrons picoseconde ELYSE à Orsay. <i>European Physical Journal Special Topics</i> , 2003, 108, 243-245.	0.2	5
140	Charged Particle and Photon Interactions in Metal Clusters and Photographic Systems Studies. , 2003, , ,		0
141	Pulse Radiolysis Study of Absorption Spectra of Ag <sup>0</sup> and Ag <sup>2+</sup> in Water from Room Temperature up to 380 °C. <i>Journal of Physical Chemistry A</i> , 2002, 106, 3123-3127.	1.1	43
142	Transient and Stable Silver Clusters Induced by Radiolysis in Methanol. <i>Journal of Physical Chemistry A</i> , 2002, 106, 10184-10194.	1.1	68
143	Preferential Solvation of Coumarin 153The Role of Hydrogen Bonding. <i>Journal of Physical Chemistry A</i> , 2002, 106, 1708-1713.	1.1	107
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