

# Elena Serrano

## List of Publications by Year in descending order

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87  
papers

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172386

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95  
docs citations

95  
times ranked

4320  
citing authors

#	ARTICLE	IF	CITATIONS
1	Nanotechnology for sustainable energy. <i>Renewable and Sustainable Energy Reviews</i> , 2009, 13, 2373-2384.	8.2	477
2	Mesoporous materials for clean energy technologies. <i>Chemical Society Reviews</i> , 2014, 43, 7681-7717.	18.7	422
3	Nanostructured Thermosetting Systems by Modification with Epoxidized Styrene-Butadiene Star Block Copolymers. Effect of Epoxidation Degree. <i>Macromolecules</i> , 2006, 39, 2254-2261.	2.2	136
4	Incorporation of chemical functionalities in the framework of mesoporous silica. <i>Chemical Communications</i> , 2011, 47, 9024.	2.2	119
5	Micro- or nanoseparated phases in thermoset blends of an epoxy resin and PEO-PPO-PEO triblock copolymer. <i>Polymer</i> , 2005, 46, 7082-7093.	1.8	104
6	Curing Behavior and Final Properties of Nanostructured Thermosetting Systems Modified with Epoxidized Styrene-Butadiene Linear Diblock Copolymers. <i>Macromolecular Chemistry and Physics</i> , 2007, 208, 2281-2292.	1.1	92
7	Magnetically separable nanocomposites with photocatalytic activity under visible light for the selective transformation of biomass-derived platform molecules. <i>Green Chemistry</i> , 2011, 13, 2750.	4.6	89
8	Structure and Properties of a Semifluorinated Diblock Copolymer Modified Epoxy Blend. <i>Macromolecules</i> , 2007, 40, 4068-4074.	2.2	88
9	Nanostructured Thermosetting Systems from Epoxidized Styrene Butadiene Block Copolymers. <i>Macromolecular Rapid Communications</i> , 2005, 26, 982-985.	2.0	87
10	Continuous flow nanocatalysis: reaction pathways in the conversion of levulinic acid to valuable chemicals. <i>Green Chemistry</i> , 2013, 15, 2786.	4.6	70
11	Desilication of TS-1 zeolite for the oxidation of bulky molecules. <i>Catalysis Communications</i> , 2014, 44, 35-39.	1.6	69
12	Meeting High Stability and Efficiency in Hybrid Light-Emitting Diodes Based on SiO <sub>2</sub> /ZrO <sub>2</sub> Coated CsPbBr <sub>3</sub> Perovskite Nanocrystals. <i>Advanced Functional Materials</i> , 2020, 30, 2005401.	7.8	63
13	Synthesis and Characterization of Epoxidized Styrene-Butadiene Block Copolymers as Templates for Nanostructured Thermosets. <i>Macromolecular Chemistry and Physics</i> , 2004, 205, 987-996.	1.1	62
14	Facile Metalation of Hbzq by [ <i>cis</i> -Pt(C <sub>6</sub> F <sub>5</sub> ) <sub>2</sub> (thf) <sub>2</sub> ]: A Route to a Pentafluorophenyl Benzoquinolate Solvate Complex That Easily Coordinates Terminal Alkynes. Spectroscopic and Optical Properties. <i>Inorganic Chemistry</i> , 2012, 51, 11665-11679.	1.9	60
15	Mechanical properties-morphology relationships in nano-/microstructured epoxy matrices modified with PEO-PPO-PEO block copolymers. <i>Polymer International</i> , 2007, 56, 1392-1403.	1.6	59
16	Luminescent cyclometalated-pentafluorophenyl Pt II, Pt IV and heteropolynuclear complexes. <i>Coordination Chemistry Reviews</i> , 2018, 366, 69-90.	9.5	55
17	Microwave-assisted catalysis by iron oxide nanoparticles on MCM-41: Effect of the support morphology. <i>Applied Catalysis A: General</i> , 2013, 453, 383-390.	2.2	51
18	Divergent Behavior in the Cyclopalladation of Phosphorus Ylides and Iminophosphanes. <i>Organometallics</i> , 2007, 26, 3541-3551.	1.1	47

#	ARTICLE	IF	CITATIONS
19	Micro- and macrophase separation of thermosetting systems modified with epoxidized styrene- <i>b</i> -butadiene- <i>b</i> -styrene linear triblock copolymers and their influence on final mechanical properties. <i>Polymer International</i> , 2008, 57, 1333-1342.	1.6	47
20	Functionalization of Methyl (R)-Phenylglycinate Through Orthopalladation: C-H, C-O, C-N, and C-C Bond Coupling. <i>Inorganic Chemistry</i> , 2009, 48, 11963-11975.	1.9	42
21	Synthesis of mesoporous metal complex-silica materials and their use as solvent-free catalysts. <i>New Journal of Chemistry</i> , 2011, 35, 225-234.	1.4	42
22	Towards microphase separation in epoxy systems containing PEO/PPO/PEO block copolymers by controlling cure conditions and molar ratios between blocks. Part 2. Structural characterization. <i>Colloid and Polymer Science</i> , 2006, 284, 1419-1430.	1.0	41
23	Regioselective Orthopalladation of (Z)-2-Aryl-4-Arylidene-5(4H)-Oxazolones: Scope, Kinetic-Mechanistic, and Density Functional Theory Studies of the C-H Bond Activation. <i>Inorganic Chemistry</i> , 2011, 50, 8132-8143.	1.9	41
24	Sol-Gel Coordination Chemistry: Building Catalysts from the Bottom-Up. <i>ChemCatChem</i> , 2013, 5, 844-860.	1.8	41
25	In Situ Time-Resolved Observation of the Development of Intracrystalline Mesoporosity in USY Zeolite. <i>Chemistry of Materials</i> , 2016, 28, 8971-8979.	3.2	35
26	Synthesis and structure of orthopalladated complexes derived from prochiral iminophosphoranes and phosphorus ylides. <i>Journal of Organometallic Chemistry</i> , 2008, 693, 417-424.	0.8	32
27	White-emitting organometallo-silica nanoparticles for sun-like light-emitting diodes. <i>Materials Horizons</i> , 2019, 6, 130-136.	6.4	32
28	Mixed P-N and As-N Bis-Ylide Palladium Complexes: Cooperative Intramolecular Interactions, Conformational Preferences, and C-H Bond Activations. <i>Organometallics</i> , 2006, 25, 4653-4664.	1.1	31
29	Unexpected [2 + 2] C-C bond coupling due to photocycloaddition on orthopalladated (Z)-2-aryl-4-arylidene-5(4H)-oxazolones. <i>Chemical Communications</i> , 2009, , 4681.	2.2	31
30	Luminescent Cycloplatinated Complexes with Biologically Relevant Phosphine Ligands: Optical and Cytotoxic Properties. <i>Inorganic Chemistry</i> , 2019, 58, 1657-1673.	1.9	30
31	Self-Assembly of Luminescent Alkynyl-Based Platinum-Cadmium Complexes Containing Auxiliary Diimine or Terpyridine Ligands. <i>Inorganic Chemistry</i> , 2009, 48, 5250-5262.	1.9	29
32	Hybrid Dye-Titania Nanoparticles for Superior Low-Temperature Dye-Sensitized Solar Cells. <i>Advanced Energy Materials</i> , 2018, 8, 1702583.	10.2	29
33	Improving hydrogen production from the hydrolysis of ammonia borane by using multifunctional catalysts. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 17100-17111.	3.8	28
34	Molecular dynamics of an epoxy resin modified with an epoxidized poly(styrene- <i>b</i> -butadiene) linear block copolymer during cure and microphase separation processes. <i>European Polymer Journal</i> , 2009, 45, 1046-1057.	2.6	27
35	Stereoselective Synthesis of 1,3-Diaminotruaxillic Acid Derivatives: An Advantageous Combination of C-H ortho-Palladation and On-Flow [2+2]-Photocycloaddition in Microreactors. <i>Chemistry - A European Journal</i> , 2016, 22, 144-152.	1.7	26
36	Viscoelastic behavior of thermosetting epoxy mixtures modified with syndiotactic polystyrene during network formation. <i>Journal of Applied Polymer Science</i> , 2006, 100, 2348-2355.	1.3	25

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37	The Energetics of Surfactantâ€”Templating of Zeolites. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 8724-8728.	7.2	25
38	Effect of different thermal treatments on the self-assembled nanostructures of a styreneâ€”butadieneâ€”styrene star block copolymer. <i>Polymer Degradation and Stability</i> , 2004, 83, 495-507.	2.7	24
39	Nanostructuration of Unsaturated Polyester by Allâ€”Acrylic Block Copolymers, 1 â€”Use of Highâ€”Molecularâ€”Weight Block Copolymers. <i>Macromolecular Materials and Engineering</i> , 2008, 293, 820-827.	1.7	24
40	Thermally reversible materials based on thermosetting systems modified with polymer dispersed liquid crystals for optoelectronic application. <i>Polymers for Advanced Technologies</i> , 2006, 17, 835-840.	1.6	23
41	Multifunctional Thermally Reversible Nanostructured Thermosetting Materials Based on Block Copolymers Dispersed Liquid Crystal. <i>Macromolecular Rapid Communications</i> , 2007, 28, 937-941.	2.0	22
42	Mesoporous organosilicas with Pd(II) complexes in their framework. <i>Microporous and Mesoporous Materials</i> , 2012, 158, 300-308.	2.2	22
43	Self-assembled block copolymers as matrix for multifunctional materials modified with low-molecular-weight liquid crystals. <i>Acta Materialia</i> , 2007, 55, 6436-6443.	3.8	21
44	Organotitanias: a versatile approach for band gap reduction in titania based materials. <i>Journal of Materials Chemistry C</i> , 2014, 2, 9497-9504.	2.7	21
45	Hierarchical Zeolites and their Catalytic Performance in Selective Oxidative Processes. <i>ChemSusChem</i> , 2015, 8, 1328-1333.	3.6	21
46	The role of mesoporosity and Si/Al ratio in the catalytic etherification of glycerol with benzyl alcohol using ZSM-5 zeolites. <i>Journal of Molecular Catalysis A</i> , 2015, 406, 40-45.	4.8	20
47	Polymer dispersed liquid crystals based on poly(styreneâ€” <i>i&gt;b&lt;/i&gt;â€”ethylene oxide), poly(bisphenol a) Tj ETQq1 1 0.784314 rgBT /Over diagrams and morphologies generated. <i>Journal of Applied Polymer Science</i>, 2008, 108, 1116-1125.</i>	1.3	18
48	Incorporation of cubane-type Mo <sub>3</sub> S <sub>4</sub> molybdenum cluster sulfides in the framework of mesoporous silica. <i>Microporous and Mesoporous Materials</i> , 2012, 151, 380-389.	2.2	18
49	Key Ionic Electrolytes for Highly Selfâ€”Stable Lightâ€”Emitting Electrochemical Cells Based on Ir(III) Complexes. <i>Advanced Optical Materials</i> , 2020, 8, 2000295.	3.6	18
50	Thermoresponsive meso/nanostructured thermosetting materials based on PS-b-PEO block copolymer-dispersed liquid crystal: Curing behavior and morphological variation. <i>Acta Materialia</i> , 2008, 56, 5112-5122.	3.8	17
51	Introducing catalytic activity in helical nanostructures: microwave assisted oxathioacetalisation catalysed by Al-containing helical mesoporous silicas. <i>Chemical Communications</i> , 2010, 46, 5163.	2.2	17
52	Organometallic phosphors as building blocks in solâ€”gel chemistry: luminescent organometallo-silica materials. <i>Journal of Materials Chemistry C</i> , 2017, 5, 9721-9732.	2.7	17
53	Surfactantâ€”Templated Zeolites: From Thermodynamics to Direct Observation. <i>Advanced Materials Interfaces</i> , 2021, 8, 2001388.	1.9	17
54	Experimental and Computational Study of the Bonding Properties of Mixed Bisâ€”Ylides of Phosphorus and Sulfur. <i>Inorganic Chemistry</i> , 2009, 48, 6823-6834.	1.9	16

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55	Ortho-Palladation of (Z)-2-Aryl-4-Arylidene-5(4H)-Oxazolones. Structure and Functionalization. <i>Organometallics</i> , 2010, 29, 1428-1435.	1.1	16
56	Helical Al- and Ce-MCM-41 materials as novel catalyst for acid and redox processes. <i>Applied Catalysis A: General</i> , 2012, 435-436, 1-9.	2.2	16
57	Mesoporous Metal Complexes in Silica Aerogels for Environmentally Friendly Amination of Allylic Alcohols. <i>ChemCatChem</i> , 2015, 7, 87-93.	1.8	16
58	Synthesis and Characterization of Pd(II) Complexes with Bis-Pyridinium and Isoquinolinium N-Ylides: Moderate CH <sub>2</sub> -OC Intramolecular Hydrogen Bonds as Source of Conformational Preferences. <i>Inorganic Chemistry</i> , 2004, 43, 7622-7635.	1.9	15
59	A stable luminescent hybrid mesoporous copper complex in silica. <i>Chemical Communications</i> , 2012, 48, 8883.	2.2	15
60	Insights into the Active Species of Nanoparticle-Functionalized Hierarchical Zeolites in Alkylation Reactions. <i>ChemCatChem</i> , 2014, 6, 3530-3539.	1.8	15
61	Pd-catalysed ortho-alkoxylation of benzamides N-protected with an iminophosphorane functionality. <i>New Journal of Chemistry</i> , 2015, 39, 3077-3083.	1.4	15
62	Biodegradable Poly( $\epsilon$ -Caprolactone) Active Films Loaded with MSU-X Mesoporous Silica for the Release of $\beta$ -Tocopherol. <i>Polymers</i> , 2020, 12, 137.	2.0	14
63	Hierarchical control of porous silica by pH adjustment: Alkyl polyamines as surfactants for bimodal silica synthesis and its carbon replica. <i>Journal of Solid State Chemistry</i> , 2009, 182, 2141-2148.	1.4	13
64	Regioselective CH Bond Activation on Stabilized Nitrogen Ylides Promoted by Pd(II) Complexes: Scope and Limitations. <i>Organometallics</i> , 2012, 31, 394-404.	1.1	13
65	Magnetically separable mesoporous Fe <sub>3</sub> O <sub>4</sub> /silica catalysts with very low Fe <sub>3</sub> O <sub>4</sub> content. <i>Journal of Solid State Chemistry</i> , 2016, 237, 138-143.	1.4	13
66	Bottom-up construction of highly photoactive dye-sensitized titania using Ru(II) and Ir(III) complexes as building blocks. <i>Applied Catalysis B: Environmental</i> , 2017, 200, 93-105.	10.8	13
67	Hybrid Amino Acid-TiO <sub>2</sub> Materials with Tuneable Crystalline Structure and Morphology for Photocatalytic Applications. <i>Advanced Sustainable Systems</i> , 2021, 5, 2100076.	2.7	12
68	Conducting Polymer-TiO <sub>2</sub> Hybrid Materials: Application in the Removal of Nitrates from Water. <i>Langmuir</i> , 2019, 35, 6089-6105.	1.6	11
69	Different bonding modes of sulfur bis-ylides in Pd complexes: Crystal structure of [Pd( $\eta^4$ -OAc) $\{1/4$ -[CH(SMe <sub>2</sub> ) <sub>2</sub> C(O)](acac-O, O $\epsilon^2$ )]ClO <sub>4</sub> . <i>Journal of Molecular Structure</i> , 2008, 890, 57-62.	1.8	10
70	Well-ordered mesoporous interconnected silica spheres prepared using extremely low surfactant concentrations. <i>Materials Chemistry and Physics</i> , 2011, 129, 261-269.	2.0	10
71	Structural and ordering behavior of lamellar polystyrene- <i>b</i> -polybutadiene- <i>b</i> -polystyrene triblock copolymer containing layered silicates. <i>Journal of Applied Polymer Science</i> , 2008, 110, 3624-3637.	1.3	8
72	Regioselective C-H Bond Activation of Asymmetric Bis(ylide)s Promoted by Pd. <i>European Journal of Inorganic Chemistry</i> , 2017, 2017, 2220-2230.	1.0	8

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73	Influence of PS-b-PEO diblock copolymers on the compatibility of syndiotactic polystyrene modified epoxy blends. <i>Journal of Applied Polymer Science</i> , 2006, 102, 479-488.	1.3	6
74	Metal-complex ionosilicas: Cationic mesoporous silica with Ni(II) and Cu(II) complexes in their framework. <i>Materials Letters</i> , 2013, 95, 93-96.	1.3	6
75	The Energetics of Surfactant-Templating of Zeolites. <i>Angewandte Chemie</i> , 2018, 130, 8860-8864.	1.6	6
76	Versatile Homoleptic Naphthylacetylide Heteronuclear [Pt <sub>2</sub> M <sub>4</sub> (C≡C) <sub>1/2</sub> (Np) <sub>8</sub> ] (M = Ag, Cu) Phosphors for Highly Efficient White and NIR Hybrid Light-Emitting Diodes. <i>Advanced Optical Materials</i> , 2020, 8, 1901126.	3.6	6
77	The use of N <sup>N</sup> ligands as an alternative strategy for the sol-gel synthesis of visible-light activated titanias. <i>Journal of Materials Chemistry C</i> , 2020, 8, 12495-12508.	2.7	6
78	Synthesis, Structure, and Reactivity of Pd Complexes with Mixed P,S-Bis(ylide), Ylide-Sulfide, and Ylide-Methanide Ligands. <i>European Journal of Inorganic Chemistry</i> , 2013, 2013, 2129-2138.	1.0	5
79	Consecutive Surfactant-Templating Opens up New Possibilities for Hierarchical Zeolites. <i>Crystal Growth and Design</i> , 2020, 20, 515-520.	1.4	5
80	Molecular dynamics of poly(glycolide) and poly(glycolide-co-L-lactide) during isothermal cold crystallization. <i>Journal of Non-Crystalline Solids</i> , 2006, 352, 5087-5092.	1.5	4
81	PALS study of epoxy matrices: self-assembly of block copolymers and its capability for nanostructuring thermosetting systems. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2007, 4, 3690-3699.	0.8	4
82	Titania-Silica Materials for Enhanced Photocatalysis. <i>Chemistry - A European Journal</i> , 2015, 21, 18338-18344.	1.7	4
83	Thermochemistry of Surfactant-Templating of USY Zeolite. <i>Chemistry - A European Journal</i> , 2019, 25, 10045-10048.	1.7	4
84	Highly emissive hybrid mesoporous organometallo-silica nanoparticles for bioimaging. <i>Materials Advances</i> , 2022, 3, 3582-3592.	2.6	4
85	Visible-Light-Activated Black Organotitanias: How Synthetic Conditions Influence Their Structure and Photocatalytic Activity. <i>ChemPlusChem</i> , 2018, 83, 390-400.	1.3	3
86	Comparison of Lattice-Fluid Binary Parameters For Mixtures and Block Copolymers. <i>Journal of Macromolecular Science - Physics</i> , 2013, 52, 65-83.	0.4	2
87	ConfChem Conference on A Virtual Colloquium to Sustain and Celebrate IYC 2011 Initiatives in Global Chemical Education-The Global Experiment of the IYC2011: Creating Online Communities for Education and Science. <i>Journal of Chemical Education</i> , 2013, 90, 1544-1546.	1.1	1