

Felipe J Serna

List of Publications by Year in descending order

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Version: 2024-02-01

42
papers

1,651
citations

361413

20
h-index

289244

40
g-index

43
all docs

43
docs citations

43
times ranked

1836
citing authors

#	ARTICLE	IF	CITATIONS
1	High-performance aromatic polyamides. <i>Progress in Polymer Science</i> , 2010, 35, 623-686.	24.7	588
2	Putting to work organic sensing molecules in aqueous media: fluorene derivative-containing polymers as sensory materials for the colorimetric sensing of cyanide in water. <i>Chemical Communications</i> , 2010, 46, 7951.	4.1	110
3	Fluorogenic and Chromogenic Polymer Chemosensors. <i>Polymer Reviews</i> , 2011, 51, 341-390.	10.9	67
4	Solid Polymer Substrates and Coated Fibers Containing 2,4,6-Trinitrobenzene Motifs as Smart Labels for the Visual Detection of Biogenic Amine Vapors. <i>Chemistry - A European Journal</i> , 2015, 21, 8733-8736.	3.3	52
5	Colorimetric detection and determination of Fe(III), Co(II), Cu(II) and Sn(II) in aqueous media by acrylic polymers with pendant terpyridine motifs. <i>Sensors and Actuators B: Chemical</i> , 2016, 226, 118-126.	7.8	52
6	Solid sensory polymer substrates for the quantification of iron in blood, wine and water by a scalable RGB technique. <i>Journal of Materials Chemistry A</i> , 2013, 1, 15435.	10.3	50
7	Water-soluble polymers, solid polymer membranes, and coated fibres as smart sensory materials for the naked eye detection and quantification of TNT in aqueous media. <i>Chemical Communications</i> , 2014, 50, 2484-2487.	4.1	47
8	Crosslinked Aromatic Polyamides: A Further Step in High-Performance Materials. <i>Macromolecular Chemistry and Physics</i> , 2013, 214, 2223-2231.	2.2	46
9	Sub-ppm quantification of Hg(II) in aqueous media using both the naked eye and digital information from pictures of a colorimetric sensory polymer membrane taken with the digital camera of a conventional mobile phone. <i>Analytical Methods</i> , 2013, 5, 54-58.	2.7	40
10	Chromogenic and fluorogenic detection of cations in aqueous media by means of an acrylic polymer chemosensor with pendant Rhodamine-based dyes. <i>Dyes and Pigments</i> , 2013, 96, 414-423.	3.7	37
11	Forced Solid-State Interactions for the Selective Turn-On Fluorescence Sensing of Aluminum Ions in Water Using a Sensory Polymer Substrate. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 921-928.	8.0	36
12	Novel aromatic polyamides with main chain and pendant 1,2,4-triazole moieties and their application to the extraction/elimination of mercury cations from aqueous media. <i>Polymer Chemistry</i> , 2010, 1, 1291.	3.9	33
13	Working with water insoluble organic molecules in aqueous media: fluorene derivative-containing polymers as sensory materials for the colorimetric sensing of cyanide in water. <i>Polymer Chemistry</i> , 2011, 2, 1129-1138.	3.9	31
14	Crosslinkable polyamide-imides. <i>Journal of Applied Polymer Science</i> , 1985, 30, 61-69.	2.6	28
15	Selective solid-liquid extraction of cations using solid-phase polyamides with crown ether moieties as cation host units. <i>Journal of Applied Polymer Science</i> , 2007, 106, 2875-2884.	2.6	25
16	Recent Patents on Aromatic Polyamides. <i>Recent Patents on Materials Science</i> , 2009, 2, 190-208.	0.5	24
17	A selective and highly sensitive fluorescent probe of Hg ²⁺ in organic and aqueous media: The role of a polymer network in extending the sensing phenomena to water environments. <i>Sensors and Actuators B: Chemical</i> , 2011, 157, 686-690.	7.8	23
18	Fluorescent aromatic polyamides with urea binding sites and fluorene or dansyl signaling units. <i>European Polymer Journal</i> , 2008, 44, 3578-3587.	5.4	22

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19	Solid polymer substrates and smart fibres for the selective visual detection of TNT both in vapour and in aqueous media. <i>RSC Advances</i> , 2014, 4, 25562-25568.	3.6	22
20	Aromatic polyamides with pendant urea moieties. <i>Journal of Polymer Science Part A</i> , 2007, 45, 4026-4036.	2.3	21
21	Properties, characterization and preparation of halogenated aromatic polyamides. <i>Journal of Polymer Research</i> , 2007, 14, 341-350.	2.4	21
22	Acrylic Polymers with Pendant Phenylboronic Acid Moieties as "Turn-Off" and "Turn-On" Fluorescence Solid Sensors for Detection of Dopamine, Glucose, and Fructose in Water. <i>ACS Macro Letters</i> , 2015, 4, 979-983.	4.8	20
23	Constitutional isomerism in polyamides derived from isophthaloyl chloride and 1,3-diamine-4-chlorobenzene. <i>Journal of Polymer Science Part A</i> , 2003, 41, 1202-1215.	2.3	17
24	Selective and sensitive detection of aluminium ions in water via fluorescence "turn-on" with both solid and water soluble sensory polymer substrates. <i>Journal of Hazardous Materials</i> , 2014, 276, 52-57.	12.4	17
25	Polyamide model compound containing the urea group as selective colorimetric sensing probe towards aromatic diamines. <i>Supramolecular Chemistry</i> , 2009, 21, 337-343.	1.2	16
26	Synthesis and characterization of novel poly(amide urea)s, materials with outstanding mechanical properties. <i>Journal of Polymer Science Part A</i> , 2007, 45, 5398-5407.	2.3	15
27	Chemical modification of the pendant structure of wholly aromatic polyamides: Toward functional high-performance materials with tuned chromogenic and fluorogenic behavior. <i>Journal of Polymer Science Part A</i> , 2010, 48, 3823-3833.	2.3	15
28	Palladium-containing polymers as hybrid sensory materials (water-soluble polymers, films and smart) <i>Sensors and Actuators B: Chemical</i> , 2018, 255, 2750-2755.	7.8	15
29	Functional aramids: Aromatic polyamides with reactive azido and amino groups in the pendant structure. <i>Journal of Polymer Science Part A</i> , 2014, 52, 1469-1477.	2.3	14
30	Solid sensory polymer kit for the easy and rapid determination of the concentration of water in organic solvents and ambient humidity. <i>Sensors and Actuators B: Chemical</i> , 2014, 191, 233-238.	7.8	14
31	Polymer chemosensors as solid films and coated fibres for extreme acidity colorimetric sensing. <i>Journal of Materials Chemistry A</i> , 2015, 3, 2833-2843.	10.3	14
32	Acrylic copolymers with pendant 1,2,4-triazole moieties as colorimetric sensory materials and solid phases for the removal and sensing of cations from aqueous media. <i>Journal of Polymer Science Part A</i> , 2011, 49, 3817-3825.	2.3	13
33	Solid polymer and metallogel networks based on a fluorene derivative as fluorescent and colourimetric chemosensors for Hg(II). <i>Reactive and Functional Polymers</i> , 2014, 79, 14-23.	4.1	13
34	Aromatic polyamides and acrylic polymers as solid sensory materials and smart coated fibres for high acidity colorimetric sensing. <i>Polymer Chemistry</i> , 2015, 6, 3110-3120.	3.9	13
35	Colorimetric anion sensing by polyamide models containing urea-binding sites. <i>Supramolecular Chemistry</i> , 2010, 22, 325-338.	1.2	12
36	An Organic/Inorganic Hybrid Membrane as a Solid "Turn-On" Fluorescent Chemosensor for Coenzyme A (CoA), Cysteine (Cys), and Glutathione (GSH) in Aqueous Media. <i>Sensors</i> , 2012, 12, 2969-2982.	3.8	12

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37	Selective detection and discrimination of nitro explosive vapors using an array of three luminescent sensory solid organic and hybrid polymer membranes. <i>Sensors and Actuators B: Chemical</i> , 2015, 212, 18-27.	7.8	11
38	Methacrylate copolymers with pendant piperazinedione-sensing motifs as fluorescent chemosensory materials for the detection of Cr(VI) in aqueous media. <i>Journal of Hazardous Materials</i> , 2012, 227-228, 480-483.	12.4	10
39	Aromatic Polyisophthalamides with Mononitro, Dinitro and Trinitroiminobenzoyl Pendant Groups. <i>High Performance Polymers</i> , 2008, 20, 19-37.	1.8	9
40	Crosslinkable polyester imides. <i>British Polymer Journal</i> , 1987, 19, 453-458.	0.7	6
41	Sensory Polymers for Detecting Explosives and Chemical Warfare Agents. , 2016, , 553-576.		6
42	Crosslinkable copolyisophthalamides. <i>Angewandte Makromolekulare Chemie</i> , 1986, 139, 113-122.	0.2	5