Jose M Saniger

List of Publications by Year
in descending order

107	2,927	172457	182427
papers	citations	29 h-index	51 g-index

107	107	107	3988
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Adsorption kinetics of optochemical NH3 gas sensing with semiconductor polyaniline films. Sensors and Actuators B: Chemical, 2002, 82, 14-23.	7.8	163
2	One-step synthesis of Mn3O4 nanoparticles: Structural and magnetic study. Journal of Colloid and Interface Science, 2005, 291, 175-180.	9.4	157
3	Gold nanoparticles: Support effects for the WGS reaction. Journal of Molecular Catalysis A, 2007, 278, 200-208.	4.8	126
4	Deposition of Gold Nanoparticles onto Thiol-Functionalized Multiwalled Carbon Nanotubes. Journal of Physical Chemistry B, 2005, 109, 16290-16295.	2.6	120
5	Interaction of Oxidized Single-Walled Carbon Nanotubes with Vaporous Aliphatic Amines. Journal of Physical Chemistry B, 2002, 106, 1588-1597.	2.6	117
6	New Preparation Method of Gold Nanoparticles on SiO2. Journal of Physical Chemistry B, 2006, 110, 8559-8565.	2.6	116
7	Structure, Thermal Stability, and Deformation of Multibranched Carbon Nanotubes Synthesized by CVD in the AAO Template. Journal of Physical Chemistry B, 2001, 105, 1523-1527.	2.6	110
8	Al-O infrared vibrational frequencies of Î³-alumina. Materials Letters, 1995, 22, 109-113.	2.6	99
9	Polyaniline composite coatings interrogated by a nulling optical-transmittance bridge for sensing low concentrations of ammonia gas. Sensors and Actuators B: Chemical, 2001, 76, 18-24.	7.8	96
10	Silver nanoparticles synthesized by direct photoreduction of metal salts. Application in surfaceâ€enhanced Raman spectroscopy. Journal of Raman Spectroscopy, 2009, 40, 376-380.	2.5	96
11	Spray pyrolysis deposition and characterization of titanium oxide thin films. Materials Chemistry and Physics, 2003, 77, 938-944.	4.0	82
12	Synthesis of multi branched carbon nanotubes in porous anodic aluminum oxide template. Carbon, 2001, 39, 1709-1715.	10.3	80
13	Auâ^'Ir/TiO₂Prepared by Deposition Precipitation with Urea: Improved Activity and Stability in CO Oxidation. Journal of Physical Chemistry C, 2009, 113, 9710-9720.	3.1	80
14	Fourier transform infrared spectroscopy studies of the reaction between polyacrylic acid and metal oxides. Materials Letters, 1991, 12, 281-285.	2.6	78
15	Irradiation of Single-Walled Carbon Nanotubes with High-Energy Protons. Nano Letters, 2002, 2, 789-791.	9.1	64
16	Thin films of polyanilineâ€"polyacrylic acid composite by chemical bath deposition. Thin Solid Films, 1999, 347, 241-247.	1.8	61
17	Contact angle studies on anodic porous alumina. Journal of Colloid and Interface Science, 2005, 287, 664-670.	9.4	61
18	Characterization of anodic porous alumina by AFM. Materials Letters, 2001, 48, 127-136.	2.6	56

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19	Electrically conducting polyaniline-poly(acrylic acid) blends. Polymer International, 1998, 45, 262-270.	3.1	55
20	A magnonic gas sensor based on magnetic nanoparticles. Nanoscale, 2015, 7, 9607-9613.	5.6	50
21	Adsorption Modification of Single-Walled Carbon Nanotubes with Tetraazaannulene Macrocyclic Complexes. Nano Letters, 2002, 2, 1249-1252.	9.1	45
22	Application of principal component analysis to discriminate the Raman spectra of functionalized multiwalled carbon nanotubes. Journal of Raman Spectroscopy, 2006, 37, 1302-1306.	2.5	38
23	Magnonic sensor array based on magnetic nanoparticles to detect, discriminate and classify toxic gases. Sensors and Actuators B: Chemical, 2017, 240, 497-502.	7.8	37
24	Structural Changes of Amyloid Beta in Hippocampus of Rats Exposed to Ozone: A Raman Spectroscopy Study. Frontiers in Molecular Neuroscience, 2017, 10, 137.	2.9	37
25	Catalyst-free SiO2 sonogels. Journal of Sol-Gel Science and Technology, 2006, 39, 235-240.	2.4	34
26	ZIF Nanocrystal-Based Surface Acoustic Wave (SAW) Electronic Nose to Detect Diabetes in Human Breath. Biosensors, 2019, 9, 4.	4.7	33
27	Direct Amidation of Terminal Carboxylic Groups of Armchair and Zigzag Single-Walled Carbon Nanotubes:â€‰ A Theoretical Study. Nano Letters, 2001, 1, 657-661.	9.1	30
28	Application of principal component analysis and Raman spectroscopy in the analysis of polycrystalline BaTiO3 at high pressure. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2007, 66, 557-560.	3.9	29
29	Use of recombinant rotavirus VP6 nanotubes as a multifunctional template for the synthesis of nanobiomaterials functionalized with metals. Biotechnology and Bioengineering, 2009, 104, 871-881.	3.3	29
30	5-S-cysteinyl-dopamine, a neurotoxic endogenous metabolite of dopamine: Implications for Parkinson's disease. Neurochemistry International, 2019, 129, 104514.	3.8	27
31	Polymerization of C60 fullerene thin films by UV pulsed laser irradiation. Applied Surface Science, 2005, 248, 243-247.	6.1	26
32	Partial fluorination of Î³-alumina by gaseous fluorine. Journal of Fluorine Chemistry, 1998, 88, 117-125.	1.7	24
33	On the synthesis and crystallization process of nanocrystalline PZT powders obtained by a hybrid solâ€“gel alkoxides route. Journal of Alloys and Compounds, 2008, 450, 380-386.	5.5	24
34	Preparation and optical characterization of catalyst free SiO2 sonogel hybrid materials. Journal of Sol-Gel Science and Technology, 2007, 41, 277-289.	2.4	23
35	LIXÂ®-loaded polymer inclusion membrane for copper(II) transport. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2006, 434, 30-38.	5.6	22
36	Mesoporous silica from rice hull ash. Journal of Chemical Technology and Biotechnology, 2007, 82, 614-619.	3.2	22

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37	Reaction of HY Zeolite with Molecular Fluorine. Journal of Catalysis, 2001, 201, 80-88.	6.2	21
38	Photoacoustic phase transition of the ceramic BaTiO3. Applied Physics Letters, 1998, 73, 623-625.	3.3	20
39	Room-temperature synthesis of Mn3O4 nanorods. Applied Physics A: Materials Science and Processing, 2005, 81, 1131-1134.	2.3	20
40	Microwave non-resonant absorption in fine cobalt ferrite particles. Journal of Magnetism and Magnetic Materials, 2007, 316, e532-e534.	2.3	20
41	Reaction of silica-supported fullerene C60 with nonylamine vapor. Carbon, 2003, 41, 2339-2346.	10.3	19
42	Experimental XRD and NMR, and molecular dynamics study of Sr containing LaAlO3 perovskite. Solid State Ionics, 2008, 178, 1944-1949.	2.7	18
43	Simulation of the infrared spectra of transition aluminas from direct measurement of Al coordination and molecular dynamics. Applied Catalysis A: General, 2001, 215, 91-100.	4.3	17
44	Preparation of free-standing Pb(Zr0.52Ti0.48)O3 nanoparticles by solâ€“gel method. Journal of Sol-Gel Science and Technology, 2007, 42, 145-149.	2.4	17
45	Dealumination and surface fluorination of H-ZSM-5 by molecular fluorine. Microporous and Mesoporous Materials, 2001, 50, 41-52.	4.4	16
46	Sensitive Raman detection of human recombinant interleukin-6 mediated by DCDR/GERS hybrid platforms. RSC Advances, 2019, 9, 12269-12275.	3.6	16
47	Photoacoustic analysis of the ferroelectric ceramics specific heat. Applied Physics Letters, 2000, 77, 3087-3089.	3.3	15
48	Micro-facet solar concentrator. International Journal of Sustainable Energy, 2008, 27, 61-71.	2.4	15
49	Plasmonic resonances in hybrid systems of aluminum nanostructured arrays and few layer graphene within the UVâ€“IR spectral range. Nanotechnology, 2017, 28, 465704.	2.6	15
50	Local Order in Depolymerized Silicate Lattices. Inorganic Chemistry, 2005, 44, 8486-8494.	4.0	14
51	Poly(acrylic acid) + zinc diacetate composites: High temperature service and electric conductivity. Materials Research Innovations, 1999, 3, 85-91.	2.3	13
52	Thermal spikes in Ag/Fe and Cu/Fe ion beam mixing. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2003, 100, 297-303.	3.5	13
53	Synthesis of Silver Nanoparticles by Sonochemical Induced Reduction Application in SERS. Journal of Nano Research, 2010, 9, 77-81.	0.8	13
54	A novel ultra-high frequency humidity sensor based on a magnetostatic spin wave oscillator. Sensors and Actuators B: Chemical, 2015, 210, 297-301.	7.8	12

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55	SERS characterization of dopamine and in situ dopamine polymerization on silver nanoparticles. Physical Chemistry Chemical Physics, 2021, 23, 12158-12170.	2.8	12
56	Characterization of the mechanical properties of polyacrylic acid-metal oxide concretes. Materials Letters, 1992, 14, 83-87.	2.6	11
57	Remanence of the interparticle interactions and its influence on the microwave absorption in Co-ferrite. Journal of Magnetism and Magnetic Materials, 2008, 320, e139-e142.	2.3	11
58	Synthesis of Silver Colloids with a Homemade Light Source. Journal of Cluster Science, 2018, 29, 719-724.	3.3	11
59	A new route to Î³-Fe2O3 via an intermediate oxyhydroxide. The reaction of Î±-NaFeO2 with benzoic acid. Journal of Materials Chemistry, 1999, 9, 227-231.	6.7	10
60	Stability of interstellar fullerenes under high-dose Î³-irradiation. Advances in Space Research, 2004, 33, 72-75.	2.6	10
61	Patterns in Dried Droplets to Detect Unfolded BSA. Sensors, 2022, 22, 1156.	3.8	10
62	Corrosion of a zinc-aluminium-copper alloy by fluorine gas. Materials Letters, 1996, 26, 41-45.	2.6	9
63	Crystallization of Zeolites from Organo-Silicic Colloids. Inorganic Chemistry, 2006, 45, 3408-3414.	4.0	9
64	Determination of Phase Transition by Principal Component Analysis Applied to Raman Spectra of Polycristalline BATIO3 at Low and High Temperature. Journal of Applied Research and Technology, 2012, 10, .	0.9	9
65	The kinetics of aluminum-7075 corrosion by uranium hexafluoride. Corrosion Science, 1990, 30, 903-913.	6.6	8
66	Kinetic studies of the dehydration process for polyacrylic acid-metal oxide compounds. Materials Letters, 1992, 15, 113-117.	2.6	8
67	Activation of CdS nanoparticles by metallic ions and their selective interactions with PAMAM dendrimers. Colloid and Polymer Science, 2004, 282, 957-964.	2.1	8
68	Is the donorâ€“acceptor electronegativity a good indicator for the surface enhanced Raman scattering (SERS)?. International Journal of Quantum Chemistry, 2012, 112, 3516-3524.	2.0	8
69	Acoustic Sensors Based on Amino-Functionalized Nanoparticles to Detect Volatile Organic Solvents. Sensors, 2017, 17, 2624.	3.8	8
70	Carbon SH-SAW-Based Electronic Nose to Discriminate and Classify Sub-ppm NO2. Sensors, 2022, 22, 1261.	3.8	8
71	High energy ion irradiation induced surface roughening in Ag and Cu films. Applied Surface Science, 2003, 206, 178-186.	6.1	7
72	Inclusion of liquid crystalline azo-dyes in nanometric porous anodic aluminas: A comparative morphological and optical study. Dyes and Pigments, 2008, 78, 48-59.	3.7	7

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73	Graphene-Based Biosensors for Molecular Chronic Inflammatory Disease Biomarker Detection. Biosensors, 2022, 12, 244.	4.7	7
74	Preparation and properties of poly(acrylic acid)-based hybrid compounds. Journal of Applied Polymer Science, 1997, 66, 861-868.	2.6	6
75	Evaluation of SiO2Sonogels, Prepared by a New Catalyst-Free Method, as Drug Delivery System. Drug Delivery, 2008, 15, 399-407.	5.7	6
76	The effects of aging and concentration on some interesting Sol-gel parameters: A feasibility study for PZT nanoparticles insertion on in-house prepared PAA matrices via electrophoresis. Journal of Electroceramics, 2009, 22, 136-144.	2.0	6
77	Interaction of 5-S-cysteinyl-dopamine with graphene oxide: an experimental and theoretical study for the detection of a Parkinson's disease biomarker. New Journal of Chemistry, 2019, 43, 15861-15870.	2.8	6
78	Characterizing the properties of anticancer silibinin and silybin B complexes with UVâ€“Vis, FT-IR, and Raman spectroscopies: A combined experimental and theoretical study. Journal of Molecular Structure, 2019, 1182, 109-118.	3.6	6
79	Phototransformation of C60 Thin Films by UV Pulsed Laser Irradiation: Comparative Photoacoustic, AFM, and Raman Studies. Journal of Nanoscience and Nanotechnology, 2007, 7, 1414-1418.	0.9	6
80	Deformation behavior of polyacrylic acid-metal oxide composites in water. Materials Letters, 1993, 16, 200-205.	2.6	5
81	Iron oxohydroxide-polyacrylic acid magnetic composite materials. Journal of Magnetism and Magnetic Materials, 1996, 161, L6-L10.	2.3	5
82	SHG-Activity of Polar Nano-Structures of LC-RED-PEGM-7 Based Sono-Gel Hybrid Materials. Molecular Crystals and Liquid Crystals, 2006, 449, 161-177.	0.9	5
83	Solid-phase assay for the detection of varicella zoster virus. Future Virology, 2009, 4, 543-551.	1.8	5
84	A study on the stability of a PZT precursor solution based on the time evolution of mean particles size and pH. Materials Chemistry and Physics, 2010, 123, 304-308.	4.0	5
85	A Crystallization Study of Nanocrystalline PZT 53/47 Granular Arrays Using a Sol-Gel Based Precursor. Journal of Materials Science and Technology, 2011, 27, 489-496.	10.7	5
86	Graphenic substrates as modifiers of the emission and vibrational responses of interacting molecules: The case of BODIPY dyes. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2021, 246, 119020.	3.9	5
87	A study of the fluorine corrosion of the Al-7075 alloy using nuclear techniques. Journal of Nuclear Materials, 1994, 210, 123-129.	2.7	4
88	Optical characterization of fullerene films on flat and patterned semiconductor substrates. Carbon, 2004, 42, 1089-1093.	10.3	4
89	Stability of interstellar fullerenes under high-dose Î³-irradiation: new data. Advances in Space Research, 2005, 36, 173-177.	2.6	4
90	Effect of sintering condition on properties of Cr-doped Pb0Â·95Sr0Â·05(Zr0Â·53Ti0Â·47)O3 ceramics. Bulletin of Materials Science, 2009, 32, 381-386.	1.7	4

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91	Properties of the PLZTN x/54/46 (0.4â‰xâ‰1.4) ceramic system. Materials Research Bulletin, 2009, 44, 1116-1121.	5.2	4
92	An auger electron spectroscopy study of the fluorination of Al-7075 alloy. Corrosion Science, 1990, 30, 107-112.	6.6	3
93	Photoacoustic Study of Phase Transition in Aurivillius Type Ceramics. Ferroelectrics, 2002, 273, 327-332.	0.6	3
94	Silicalite-1, an adsorbent for 2-, 3-, and 4-chlorophenols. Water Science and Technology, 2012, 66, 247-253.	2.5	3
95	Inclusion of Dy, Ho and Er in B sites of modified lead titanate. Journal of Materials Science Letters, 1997, 16, 1161-1163.	0.5	2
96	The Peptide AmPep1 Derived from Amaranth Recognizes the Replication Hairpin of TYLCV Disturbing Its Replication Process in Host Plants. Journal of Agricultural and Food Chemistry, 2019, 67, 9241-9253.	5.2	2
97	ObtenciÃ³n de PbTiO₃ vÃa semillado de geles. Boletin De La Sociedad Espanola De Ceramica Y Vidrio, 1999, 38, 435-438.	1.9	2
98	Three-Dimensional Porous Scaffolds Derived from Bovine Cancellous Bone Matrix Promote Osteoinduction, Osteoconduction, and Osteogenesis. Polymers, 2021, 13, 4390.	4.5	2
99	On the limit to the resolution of photoreflectance techniques for sensing analyte concentration at surfaces. Journal of Optics, 1998, 7, L63-L68.	0.5	1
100	Characterization of PZT (54/46) ferroelectric ceramics under the influence of a â€˜softâ€™ double modification with La and Nb. Physica Status Solidi (B): Basic Research, 2005, 242, 1892-1896.	1.5	1
101	EFFECTS OF Cr2O3 ON STRUCTURAL, DIELECTRIC, AND ELECTRICAL PROPERTIES OF (Pb0.95Sr0.05)(Zr0.53Ti0.47)O3 CERAMICS. International Journal of Modern Physics B, 2009, 23, 4881-4887.	2.0	1
102	Selectivity of the Cd2+/Ca2+ exchange on modified rice hull silica. Environmental Technology (United) Tj ETQq0 0 0 rgBT /Overlock 10 T	2.2	1
103	Love Wave Gas Sensor based on Surface-functionalized Nanoparticles. Procedia Engineering, 2015, 120, 606-609.	1.2	1
104	Thermal activation process of Au/TiO₂ system: a molecular spectroscopy study. RSC Advances, 2016, 6, 42554-42560.	3.6	1
105	CuO nanoparticles with PAMAM dendrimers. Journal of Coordination Chemistry, 2016, 69, 1039-1049.	2.2	1
106	Solid Solution Characterization of Bi4Ti3O12 with Eu3+. Ferroelectrics, 2006, 339, 191-199.	0.6	0
107	CaracterizaciÃ³n vibracional de piezocomposites metal-cerÃ¡mica asimÃ©tricos. Boletin De La Sociedad Espanola De Ceramica Y Vidrio, 1999, 38, 503-506.	1.9	0