Sergio Hiroshi Toma

List of Publications by Year
in descending order

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43 papers	843 citations	471509 17 h-index	501196 28 g-index
45 all docs	45 docs citations	45 times ranked	1363 citing authors

#	Article	IF	Citations
1	Improving stability of iron oxide nanofluids for enhanced oil recovery: Exploiting wettability modifications in carbonaceous rocks. Journal of Petroleum Science and Engineering, 2022, 212, 110311.	4.2	13
2	Phosphotungstic acid impregnated niobium coated superparamagnetic iron oxide nanoparticles as recyclable catalyst for selective isomerization of terpenes. RSC Advances, 2021, 11, 14203-14212.	3.6	8
3	In vivoevaluation of toxicity and anti-inflammatory activity of iron oxide nanoparticles conjugated with ibuprofen. Nanomedicine, 2021, 16, 741-758.	3.3	8
4	SPION-decorated organofunctionalized MCM48 silica-based nanocomposites for magnetic solid-phase extraction. Materials Advances, 2021, 2, 963-973.	5.4	3
5	Unveiling Anomalous Surface-Enhanced Resonance Raman Scattering on an Oxoâ€“Triruthenium Acetate Cluster Complex by a Theoreticalâ€“Experimental Approach. Journal of Physical Chemistry C, 2020, 124, 21674-21683.	3.1	3
6	Nitric oxide inhibition of lipopolysaccharide-stimulated RAW 247.6 cells by ibuprofen-conjugated iron oxide nanoparticles. Nanomedicine, 2020, 15, 2475-2492.	3.3	8
7	Superparamagnetic iron oxide nanoparticles (SPIONs) conjugated with lipase Candida antarctica A for biodiesel synthesis. RSC Advances, 2020, 10, 38490-38496.	3.6	16
8	Bovine Serum Albumin Conjugated Gold-198 Nanoparticles as Model To Evaluate Damage Caused by Ionizing Radiation to Biomolecules. ACS Applied Nano Materials, 2018, 1, 5062-5070.	5.0	9
9	Key role of surface concentration on reproducibility and optimization of SERS sensitivity. Journal of Raman Spectroscopy, 2017, 48, 1190-1195.	2.5	11
10	Accessing the charge separation effects in dye-sensitized solar cells based on a vectorial planning of supramolecular ruthenium dyes. Inorganica Chimica Acta, 2016, 453, 764-770.	2.4	6
11	Bovine glutamate dehydrogenase immobilization on magnetic nanoparticles: conformational changes and catalysis. RSC Advances, 2016, 6, 12977-12992.	3.6	7
12	Effect of silver nanoparticle and TiO2 coatings on biofilm formation on four types of modern glass. International Biodeterioration and Biodegradation, 2016, 108, 175-180.	3.9	15
13	Direct synthesis of magnetite nanoparticles from iron(II) carboxymethylcellulose and their performance as NMR contrast agents. Journal of Magnetism and Magnetic Materials, 2016, 397, 28-32.	2.3	22
14	Ultrasmall cationic superparamagnetic iron oxide nanoparticles as nontoxic and efficient MRI contrast agent and magnetic-targeting tool. International Journal of Nanomedicine, 2015, 10, 4731.	6.7	24
15	Surface Enhanced Raman Spectroelectrochemistry of a Î¼-Oxo Triruthenium Acetate Cluster: An Experimental and Theoretical Approach. Inorganic Chemistry, 2015, 54, 9656-9663.	4.0	6
16	Pushing the surface-enhanced Raman scattering analyses sensitivity by magnetic concentration: A simple non coreâ€“shell approach. Analytica Chimica Acta, 2015, 855, 70-75.	5.4	24
17	Probing surfaceâ^'complex interactions with the bis(4-thienylterpyridine)iron(II) complex anchored on TiO₂ and gold nanoparticles. Canadian Journal of Chemistry, 2014, 92, 918-924.	1.1	5
18	Silver recovery using electrochemically active magnetite coated carbon particles. Hydrometallurgy, 2014, 147-148, 241-245.	4.3	23

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19	Anisotropic magnetic carbon materials based on graphite and magnetite nanoparticles. Carbon, 2014, 77, 600-606.	10.3	6
20	On the behavior of the carboxyphenylterpyridine(8-quinolinolate) thiocyanatoruthenium(II) complex as a new black dye in TiO2 solar cells modified with carboxymethyl-beta-cyclodextrin. Inorganic Chemistry Communication, 2013, 36, 35-38.	3.9	10
21	Thermodynamic stabilization of nanostructured alpha-Ni1â^'xCox(OH)2 for high efficiency batteries and devices. RSC Advances, 2013, 3, 20261.	3.6	10
22	Electrochemically activated coordenative assembly of a triruthenium cluster metallopolymer. Electrochimica Acta, 2012, 66, 287-294.	5.2	11
23	Exploring the coordination chemistry of isomerizable terpyridine derivatives for successful analyses of cis and trans isomers by travelling wave ion mobility mass spectrometry. Analyst, The, 2012, 137, 4045.	3.5	22
24	Highly stabilized alpha-NiCo(OH)2 nanomaterials for high performance device application. Journal of Power Sources, 2012, 218, 1-4.	7.8	48
25	Titanium dioxide induced inflammation in the small intestine. World Journal of Gastroenterology, 2012, 18, 4729.	3.3	93
26	Direct assembly of a metallodendrimer encompassing seven triruthenium clusters units. Inorganica Chimica Acta, 2012, 390, 148-153.	2.4	12
27	Triangular ruthenium acetate clusters containing the bis(pyridyl)propane ligand and their inclusion chemistry with Î²-cyclodextrin. Transition Metal Chemistry, 2011, 36, 775-783.	1.4	2
28	Supramolecular Approach to Gold Nanoparticle/Triruthenium Cluster Hybrid Materials and Interfaces. European Journal of Inorganic Chemistry, 2011, 2011, 1640-1648.	2.0	13
29	Superparamagnetic Carbon Electrodes: A Versatile Approach for Performing Magnetic Coupled Electrochemical Analysis of Mercury Ions. Electroanalysis, 2011, 23, 2569-2573.	2.9	8
30	Polymethine cyanine dyes in Î²â€cyclodextrin solution: multiple equilibria and chemical oxidation. Journal of Physical Organic Chemistry, 2010, 23, 893-903.	1.9	23
31	The coordination chemistry at gold nanoparticles. Journal of the Brazilian Chemical Society, 2010, 21, 1158-1176.	0.6	98
32	Probing the binding of tetraplatinum(pyridyl)porphyrin complexes to DNA by means of surface plasmon resonance. Journal of Inorganic Biochemistry, 2009, 103, 182-189.	3.5	35
33	Investigation of interfacial processes at tetraruthenated zinc porphyrin films using electrochemical surface plasmon resonance and electrochemical quartz crystal microbalance. Electrochimica Acta, 2009, 54, 2971-2976.	5.2	6
34	Can mass dissociation patterns of transitionâ€metal complexes be predicted from electrochemical data?. Journal of Mass Spectrometry, 2009, 44, 361-367.	1.6	9
35	Unravelling the Chemical Morphology of a Mesoporous Titanium Dioxide Interface by Confocal Raman Microscopy: New Clues for Improving the Efficiency of Dye Solar Cells and Photocatalysts. Langmuir, 2009, 25, 11269-11271.	3.5	30
36	Controlled Stabilization and Flocculation of Gold Nanoparticles by Means of 2-Pyrazin-2-ylethanethiol and Pentacyanidoferrate(II) Complexes. European Journal of Inorganic Chemistry, 2007, 2007, 3356-3364.	2.0	27

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37	Versatile electrochromic displays based on TiO2 nanoporous films modified with triruthenium clusters. Electrochemistry Communications, 2006, 8, 1628-1632.	4.7	34
38	Selective hostâ€“guest interactions on mesoporous TiO2 films modified with carboxymethyl-Î²-cyclodextrin. Surface Science, 2006, 600, 4591-4597.	1.9	27
39	The Effect of -Cyclodextrin Inclusion on the Morphology of [Ru(bpy)2Cl(BPEB)](PF6) Films by Scanning Force Microscopy. Microscopy and Microanalysis, 2005, 11, 142-145.	0.4	3
40	A highly efficient redox chromophore for simultaneous application in a photoelectrochemical dye sensitized solar cell and electrochromic devices. New Journal of Chemistry, 2005, 29, 320-324.	2.8	37
41	{trans-1,4-Bis[(4-pyridyl)ethenyl]benzene}(2,2â€˜-bipyridine)ruthenium(II) Complexes and Their Supramolecular Assemblies with Î²-Cyclodextrin. Inorganic Chemistry, 2004, 43, 3521-3527.	4.0	40
42	Synthesis, spectroscopy, tandem mass spectrometry, and electrochemistry of the linearly bridged Î¼-{trans-1,4-bis[2-(4-pyridyl)ethenyl]-benzene}-{Ru3O(CH3COO)6(py)2}2 cluster. Inorganica Chimica Acta, 2004, 357, 2253-2260.	2.4	27
43	Gold Nanoparticle/Tetrapyridylporphyrin Hybrid Material: Spectroscopic and Electrocatalytic Properties and Sensor Application. Journal of the Brazilian Chemical Society, 0, , .	0.6	0