Salvador Eslava

List of Publications by Year
in descending order

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62 papers	3,021 citations	147801 31 h-index	161849 54 g-index
65 all docs	65 docs citations	65 times ranked	4951 citing authors

#	Article	IF	Citations
1	Construction of Bi2WO6/RGO/g-C3N4 2D/2D/2D hybrid Z-scheme heterojunctions with large interfacial contact area for efficient charge separation and high-performance photoreduction of CO2 and H2O into solar fuels. Applied Catalysis B: Environmental, 2018, 239, 586-598.	20.2	278
2	Printing in Three Dimensions with Graphene. Advanced Materials, 2015, 27, 1688-1693.	21.0	266
3	Mesoscale assembly of chemically modified graphene into complex cellular networks. Nature Communications, 2014, 5, 4328.	12.8	250
4	Metal-Organic Framework ZIF-8 Films As Low-Îº Dielectrics in Microelectronics. Chemistry of Materials, 2013, 25, 27-33.	6.7	227
5	Graphite-protected CsPbBr3 perovskite photoanodes functionalised with water oxidation catalyst for oxygen evolution in water. Nature Communications, 2019, 10, 2097.	12.8	124
6	Role of cobaltâ€“iron (oxy)hydroxide (CoFeO_x) as oxygen evolution catalyst on hematite photoanodes. Energy and Environmental Science, 2018, 11, 2972-2984.	30.8	120
7	Recent advances in gasoline three-way catalyst formulation: A review. Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, 2020, 234, 936-949.	1.9	104
8	In situ thermally reduced graphene oxide/epoxy composites: thermal and mechanical properties. Applied Nanoscience (Switzerland), 2016, 6, 1015-1022.	3.1	75
9	All-Inorganic CsPbBr₃ Nanocrystals: Gram-Scale Mechanochemical Synthesis and Selective Photocatalytic CO₂ Reduction to Methane. ACS Applied Energy Materials, 2020, 3, 4509-4522.	5.1	75
10	Single-Source Materials for Metal-Doped Titanium Oxide: Syntheses, Structures, and Properties of a Series of Heterometallic Transition-Metal Titanium Oxo Cages. Inorganic Chemistry, 2010, 49, 11532-11540.	4.0	71
11	Mechanochemically synthesized Pb-free halide perovskite-based Cs₂AgBiBr₆â€“Cuâ€“RGO nanocomposite for photocatalytic CO₂ reduction. Journal of Materials Chemistry A, 2021, 9, 12179-12187.	10.3	70
12	Tetrabutylammonium cations for moisture-resistant and semitransparent perovskite solar cells. Journal of Materials Chemistry A, 2017, 5, 22325-22333.	10.3	69
13	A facile way to produce epoxy nanocomposites having excellent thermal conductivity with low contents of reduced graphene oxide. Journal of Materials Science, 2017, 52, 7323-7344.	3.7	63
14	Polypyrrole-Promoted rGOâ€“MoS₂ Nanocomposites for Enhanced Photocatalytic Conversion of CO₂ and H₂O to CO, CH₄, and H₂ Products. ACS Applied Energy Materials, 2020, 3, 9897-9909.	5.1	61
15	Oxygen Evolution Catalysts at Transition Metal Oxide Photoanodes: Their Differing Roles for Solar Water Splitting. Advanced Energy Materials, 2021, 11, 2003111.	19.5	51
16	Autonomous self-healing structural composites with bio-inspired design. Scientific Reports, 2016, 6, 25059.	3.3	50
17	Pyro-electrolytic water splitting for hydrogen generation. Nano Energy, 2019, 58, 183-191.	16.0	50
18	Enhanced ceria nanoflakes using graphene oxide as a sacrificial template for CO oxidation and dry reforming of methane. Applied Catalysis B: Environmental, 2019, 242, 358-368.	20.2	50

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19	Extending the Family of Titanium Heterometallicâ€“oxoâ€“alkoxy Cages. Inorganic Chemistry, 2011, 50, 5655-5662.	4.0	49
20	Screen printed carbon CsPbBr₃ solar cells with high open-circuit photovoltage. Journal of Materials Chemistry A, 2018, 6, 18677-18686.	10.3	46
21	Understanding charge transfer, defects and surface states at hematite photoanodes. Sustainable Energy and Fuels, 2019, 3, 1351-1364.	4.9	44
22	Characterization of a Molecular Sieve Coating Using Ellipsometric Porosimetry. Langmuir, 2007, 23, 12811-12816.	3.5	43
23	Optical Property Changes in Low-k Films upon Ultraviolet-Assisted Curing. Journal of the Electrochemical Society, 2008, 155, G115.	2.9	42
24	Heterometallic cobalt(ii)â€“titanium(iv) oxo cages; key building blocks for hybrid materials. Chemical Communications, 2010, 46, 4701.	4.1	42
25	Hypercrosslinked Polymers as a Photocatalytic Platform for Visibleâ€Lightâ€Driven CO₂Photoreduction Using H₂O. ChemSusChem, 2021, 14, 1720-1727.	6.8	42
26	Silver-Decorated TiO₂ Inverse Opal Structure for Visible Light-Induced Photocatalytic Degradation of Organic Pollutants and Hydrogen Evolution. ACS Applied Materials & Interfaces, 2020, 12, 41200-41210.	8.0	41
27	Microwave-assisted deep eutectic-solvothermal preparation of iron oxide nanoparticles for photoelectrochemical solar water splitting. Journal of Materials Chemistry A, 2017, 5, 16189-16199.	10.3	40
28	Ultraviolet-Assisted Curing of Polycrystalline Pure-Silica Zeolites:â€‰ Hydrophobization, Functionalization, and Cross-Linking of Grains. Journal of the American Chemical Society, 2007, 129, 9288-9289.	13.7	38
29	Zeolite-Inspired Low-kDielectrics Overcoming Limitations of Zeolite Films. Journal of the American Chemical Society, 2008, 130, 17528-17536.	13.7	36
30	Manipulation of the catalyst-support interactions for inducing nanotube forest growth. Journal of Applied Physics, 2011, 109, 044303-044303-7.	2.5	35
31	Evidence of Large Voids in Pureâ€Silicaâ€Zeolite Lowâ€k Dielectrics Synthesized by Spinâ€on of Nanoparticle Suspensions. Advanced Materials, 2008, 20, 3110-3116.	21.0	34
32	A two-scale Weibull approach to the failure of porous ceramic structures made by robocasting: Possibilities and limits. Journal of the European Ceramic Society, 2013, 33, 679-688.	5.7	29
33	PrFeO₃ Photocathodes Prepared Through Spray Pyrolysis. ChemElectroChem, 2020, 7, 1365-1372.	3.4	27
34	Nanostructured WO₃ photoanodes for efficient water splitting via anodisation in citric acid. RSC Advances, 2017, 7, 35221-35227.	3.6	26
35	Synthesis, Characterization, and Surface Tethering of Sulfide-Functionalized Ti₁₆-oxo-alkoxy Cages. Chemistry of Materials, 2010, 22, 5174-5178.	6.7	24
36	Electrical conduction of carbon nanotube forests through sub-nanometric films of alumina. Applied Physics Letters, 2013, 102, .	3.3	24

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37	Ultraviolet-Assisted Curing of Organosilicate Glass Low-k Dielectric by Excimer Lamps. Journal of the Electrochemical Society, 2008, 155, G231.	2.9	22
38	Reaction of Trimethylchlorosilane in Spin-On Silicalite-1 Zeolite Film. Langmuir, 2008, 24, 4894-4900.	3.5	21
39	Characterization of spin-on zeolite films prepared from Silicalite-1 nanoparticle suspensions. Microporous and Mesoporous Materials, 2009, 118, 458-466.	4.4	20
40	Electricity generation from moss with light-driven microbial fuel cells. Electrochimica Acta, 2019, 298, 934-942.	5.2	20
41	Zn-Doped Fe₂TiO₅ Pseudobrookite-Based Photoanodes Grown by Aerosol-Assisted Chemical Vapor Deposition. ACS Applied Energy Materials, 2020, 3, 12066-12077.	5.1	20
42	TiO₂ photoanodes with exposed {0 1 0} facets grown by aerosol-assisted chemical vapor deposition of a titanium oxo/alkoxy cluster. Journal of Materials Chemistry A, 2019, 7, 19161-19172.	10.3	18
43	Simultaneous Formation of FeO_x Electrocatalyst Coating within Hematite Photoanodes for Solar Water Splitting. ACS Applied Energy Materials, 2019, 2, 2043-2052.	5.1	17
44	Strategies for the deposition of LaFeO₃ photocathodes: improving the photocurrent with a polymer template. Sustainable Energy and Fuels, 2020, 4, 884-894.	4.9	15
45	Enhancing the hydrophobicity of perovskite solar cells using C18 capped CH₃NH₃PbI₃ nanocrystals. Journal of Materials Chemistry C, 2018, 6, 7149-7156.	5.5	14
46	Structural evolution of iron forming iron oxide in a deep eutectic-solvothermal reaction. Nanoscale, 2021, 13, 1723-1737.	5.6	14
47	Size Shrinkage of Methacrylate-based Terpolymer Latexes Synthesized by Free Radical Polymerization: Kinetics and Influence of Main Reaction Parameters. Polymer Journal, 2006, 38, 786-798.	2.7	13
48	Using graphene oxide as a sacrificial support of polyoxotitanium clusters to replicate its two-dimensionality on pure titania photocatalysts. Journal of Materials Chemistry A, 2016, 4, 7200-7206.	10.3	13
49	Mo-doped TiO₂photoanodes using [Ti₄Mo₂O₈(OEt)₁₀]₂bimetallic oxo cages as a single source precursor. Sustainable Energy and Fuels, 2018, 2, 2674-2686.	4.9	13
50	Transmission measurements in rapid growth KDP and DKDP crystals. Journal of Modern Optics, 2009, 56, 27-31.	1.3	11
51	Profile control of novel non-Si gates using BCl[sub 3]âˆ•N[sub 2] plasma. Journal of Vacuum Science & Technology B, 2007, 25, 739.	1.3	10
52	<scp>ATRâ€FTIR</scp> measurements of albumin and fibrinogen adsorption: Inert versus calcium phosphate ceramics. Journal of Biomedical Materials Research - Part A, 2015, 103, 3493-3502.	4.0	10
53	Synergistic Effect of Simultaneous Doping of Ceria Nanorods with Cu and Cr on CO Oxidation and NO Reduction. Chemistry - A European Journal, 2021, 27, 2165-2174.	3.3	10
54	Nanoporous Organosilicate Films Prepared in Acidic Conditions Using Tetraalkylammonium Bromide Porogens. Advanced Functional Materials, 2008, 18, 3332-3339.	14.9	9

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55	Comment on â€œMELâ€type Pureâ€Silica Zeolite Nanocrystals Prepared by an Evaporationâ€Assisted Twoâ€Stage Synthesis Method as Ultraâ€Lowâ€k Materialsâ€. Advanced Functional Materials, 2010, 20, 2377-2379.	14.9	9
56	Synthesis and Optimization of the Production of Millimeterâ€Sized Hydroxyapatite Single Crystals by <scp><scp>Cl</scp></scp>^{â^'}â€“<scp><scp>OH</scp></scp>^{â^'} Ion Exchange. Journal of the American Ceramic Society, 2013, 96, 759-765.	3.8	9
57	Efficient hematite photoanodes prepared by hydrochloric acid-treated solutions with amphiphilic graft copolymer. Journal of Power Sources, 2018, 404, 149-158.	7.8	9
58	Ultra-violet-assisted cure of spin-on silicalite-1 films. Studies in Surface Science and Catalysis, 2007, 170, 594-599.	1.5	3
59	Exploring effects of intermittent light upon visible light promoted water oxidations. Sustainable Energy and Fuels, 2017, 1, 2101-2109.	4.9	3
60	Recent Advances in Photocatalytic Materials for Solar Fuel Production from Water and Carbon Dioxide. RSC Energy and Environment Series, 2020, , 80-115.	0.5	2
61	Effects of Silica Sources on Nanoporous Organosilicate Films Templated with Tetraalkylammonium Cations. Materials Research Society Symposia Proceedings, 2009, 1156, 1.	0.1	0
62	Editorial: Recent advances in water splitting. Current Opinion in Green and Sustainable Chemistry, 2021, 32, 100530.	5.9	0