

# Gilberto Casillas

## List of Publications by Year in descending order

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Version: 2024-02-01

52  
papers

3,170  
citations

201674

27  
h-index

182427

51  
g-index

53  
all docs

53  
docs citations

53  
times ranked

5494  
citing authors

#	ARTICLE	IF	CITATIONS
1	Boron nitride for enhanced oxidative dehydrogenation of ethylbenzene. <i>Journal of Energy Chemistry</i> , 2021, 57, 477-484.	12.9	23
2	Few-Layered Boron Nitride Nanosheets for Strengthening Polyurethane Hydrogels. <i>ACS Applied Nano Materials</i> , 2021, 4, 7988-7994.	5.0	10
3	Phase-specific properties in a low-alloyed TRIP steel investigated using correlative nanoindentation measurements and electron microscopy. <i>Journal of Materials Science</i> , 2020, 55, 2578-2587.	3.7	11
4	Coexisting Single-Atomic Fe and Ni Sites on Hierarchically Ordered Porous Carbon as a Highly Efficient ORR Electrocatalyst. <i>Advanced Materials</i> , 2020, 32, e2004670.	21.0	404
5	Twins or the omega phase: Which is it in high carbon steels?. <i>Scripta Materialia</i> , 2020, 186, 293-297.	5.2	17
6	Formation of Deformation-Induced Products in a Metastable- $\beta^2$ Titanium Alloy during High Temperature Compression. <i>Metals</i> , 2018, 8, 100.	2.3	13
7	Particle stimulated nucleation during dynamic and metadynamic recrystallisation of Ni-30%Fe-Nb-C alloy. <i>Materials Characterization</i> , 2017, 125, 94-98.	4.4	27
8	The effect of Nb solute and NbC precipitates on dynamic and metadynamic recrystallisation in Ni-30Fe-Nb-C model alloys. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017, 700, 116-131.	5.6	19
9	Observation of deformation twinning and martensitic transformation during nanoindentation of a transformation-induced plasticity steel. <i>Scientific Reports</i> , 2017, 7, 17397.	3.3	9
10	Carbon- and crack-free growth of hexagonal boron nitride nanosheets and their uncommon stacking order. <i>Nanoscale</i> , 2016, 8, 15926-15933.	5.6	20
11	Nanodroplets for Stretchable Superconducting Circuits. <i>Advanced Functional Materials</i> , 2016, 26, 8111-8118.	14.9	158
12	Microstructure and micro-texture evolution during the dynamic recrystallisation of a Ni-30Fe-Nb-C model alloy. <i>Journal of Alloys and Compounds</i> , 2016, 689, 250-265.	5.5	12
13	Silicon monoxide "a convenient precursor for large scale synthesis of near infrared emitting monodisperse silicon nanocrystals. <i>Nanoscale</i> , 2016, 8, 3678-3684.	5.6	30
14	Strain rate dependence of deformation-induced transformation and twinning in a metastable titanium alloy. <i>Acta Materialia</i> , 2016, 104, 190-200.	7.9	139
15	Controllable synthesis of few-layered and hierarchically porous boron nitride nanosheets. <i>Chemical Communications</i> , 2016, 52, 3911-3914.	4.1	39
16	A transmission Kikuchi diffraction study of cementite in a quenched and tempered steel. <i>Materials Characterization</i> , 2016, 114, 146-150.	4.4	12
17	Edge-Hydroxylated Boron Nitride Nanosheets as an Effective Additive to Improve the Thermal Response of Hydrogels. <i>Advanced Materials</i> , 2015, 27, 7196-7203.	21.0	227
18	The influence of partitioning on the growth of intragranular $\beta$ in near- $\beta^2$ Ti alloys. <i>Journal of Alloys and Compounds</i> , 2015, 643, 212-222.	5.5	39

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19	Size-Dependent Chemical Reactivity of Silicon Nanocrystals with Water and Oxygen. <i>Journal of Physical Chemistry C</i> , 2015, 119, 826-834.	3.1	14
20	The evolution of microstructure and mechanical properties of Ti-5Al-5Mo-2Cr-1Fe during ageing. <i>Journal of Alloys and Compounds</i> , 2015, 629, 260-273.	5.5	56
21	Synthesis of Large and Few Atomic Layers of Hexagonal Boron Nitride on Melted Copper. <i>Scientific Reports</i> , 2015, 5, 7743.	3.3	63
22	Kinematics of gold nanoparticles manipulation in situ transmission electron microscopy. <i>Journal of Nanoparticle Research</i> , 2015, 17, 1.	1.9	3
23	Elasticity of MoS <sub>2</sub> Sheets by Mechanical Deformation Observed by in Situ Electron Microscopy. <i>Journal of Physical Chemistry C</i> , 2015, 119, 710-715.	3.1	59
24	Switching On Quantum Size Effects in Silicon Nanocrystals. <i>Advanced Materials</i> , 2015, 27, 746-749.	21.0	43
25	The influence of $\beta^2$ phase stability on deformation mode and compressive mechanical properties of Ti-10V-3Fe-3Al alloy. <i>Acta Materialia</i> , 2015, 84, 124-135.	7.9	170
26	Crystalline and narrow band gap semiconductor BaZrO <sub>3</sub> : Bi-Si synthesized by microwave-hydrothermal synthesis. <i>Catalysis Today</i> , 2015, 250, 95-101.	4.4	18
27	Hierarchical Design for Fabricating Cost-Effective High Performance Supercapacitors. <i>Advanced Functional Materials</i> , 2014, 24, 4186-4194.	14.9	47
28	Rebar Graphene. <i>ACS Nano</i> , 2014, 8, 5061-5068.	14.6	178
29	New insights into the properties and interactions of carbon chains as revealed by HRTEM and DFT analysis. <i>Carbon</i> , 2014, 66, 436-441.	10.3	58
30	Three-Dimensional Nanoporous Fe <sub>2</sub> O <sub>3</sub> /Fe <sub>3</sub> C-Graphene Heterogeneous Thin Films for Lithium-Ion Batteries. <i>ACS Nano</i> , 2014, 8, 3939-3946.	14.6	167
31	Non-wettable, Oxidation-Stable, Brightly Luminescent, Perfluorodecyl-Capped Silicon Nanocrystal Film. <i>Journal of the American Chemical Society</i> , 2014, 136, 15849-15852.	13.7	32
32	Influence of Capping on the Atomistic Arrangement in Palladium Nanoparticles at Room Temperature. <i>Journal of Physical Chemistry C</i> , 2014, 118, 24641-24647.	3.1	20
33	New Insights into the Structure of PtPd Bimetallic Nanoparticles and Their Atomic Resolution Images by Cs-Corrected STEM. <i>Microscopy and Microanalysis</i> , 2014, 20, 198-199.	0.4	0
34	Artificial Photosynthesis: Solar Fuels Nanomaterials. <i>Microscopy and Microanalysis</i> , 2014, 20, 404-405.	0.4	0
35	Cu <sub>2</sub> -Passivated Au-Core, Au <sub>3</sub> Cu-Shell Nanoparticles Analyzed by Atomistic-Resolution Cs-Corrected STEM. <i>Langmuir</i> , 2013, 29, 9231-9239.	3.5	24
36	Origin and shape evolution of core-shell nanoparticles in Au-Pd: from few atoms to high Miller index facets. <i>Journal of Nanoparticle Research</i> , 2013, 15, 1.	1.9	22

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37	Strain-release mechanisms in bimetallic core-shell nanoparticles as revealed by Cs-corrected STEM. <i>Surface Science</i> , 2013, 609, 161-166.	1.9	56
38	Platinum Electrodeposition on Unsupported Single Wall Carbon Nanotubes and Its Application as Methane Sensing Material. <i>Journal of the Electrochemical Society</i> , 2013, 160, H98-H104.	2.9	29
39	Direct observation of liquid-like behavior of a single Au grain boundary. <i>Nanoscale</i> , 2013, 5, 6333.	5.6	12
40	Structure and composition of Au/Co magneto-plasmonic nanoparticles. <i>MRS Communications</i> , 2013, 3, 177-183.	1.8	25
41	A seamless three-dimensional carbon nanotube graphene hybrid material. <i>Nature Communications</i> , 2012, 3, 1225.	12.8	456
42	A New Mechanism of Stabilization of Large Decahedral Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2012, 116, 8844-8848.	3.1	35
43	Platinum Electrodeposition on Unsupported Carbon Nano-Onions. <i>Langmuir</i> , 2012, 28, 17202-17210.	3.5	49
44	New Insights into the Chemistry of Thiolate-Protected Palladium Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2012, 116, 9830-9837.	3.1	65
45	Large scale synthesis of V-shaped rutile twinned nanorods. <i>CrystEngComm</i> , 2012, 14, 3120.	2.6	14
46	<i>In situ</i> TEM study of mechanical behaviour of twinned nanoparticles. <i>Philosophical Magazine</i> , 2012, 92, 4437-4453.	1.6	24
47	Atomic Resolution Imaging of Polyhedral PtPd Core-Shell Nanoparticles by Cs-Corrected STEM. <i>Journal of Physical Chemistry C</i> , 2012, 116, 23596-23602.	3.1	37
48	Graphene-Supported High-Resolution TEM and STEM Imaging of Silicon Nanocrystals and their Capping Ligands. <i>Journal of Physical Chemistry C</i> , 2012, 116, 22463-22468.	3.1	78
49	Direct oxygen imaging in titania nanocrystals. <i>Nanotechnology</i> , 2012, 23, 335706.	2.6	5
50	Quantitative Analysis of Structure and Bandgap Changes in Graphene Oxide Nanoribbons during Thermal Annealing. <i>Journal of the American Chemical Society</i> , 2012, 134, 11774-11780.	13.7	55
51	On the structure of bimetallic noble metal nanoparticles as revealed by aberration corrected scanning transmission electron microscopy (STEM). <i>Micron</i> , 2012, 43, 557-564.	2.2	12
52	New insights into the structure of Pd-Au nanoparticles as revealed by aberration-corrected STEM. <i>Journal of Crystal Growth</i> , 2011, 325, 60-67.	1.5	27