

## Ramachandran Saravanan

<https://publons.com/a/935117>



### Publons Ranking

98th percentile of reviewers from The Madura College on Publons between January 1900 and August 2018.

89th percentile of reviewers in Engineering (all) on Publons between January 1900 and August 2018.













### Peer Review Summary

Performed 19 reviews for journals including *Materials Letters* and *Materials Science in Semiconductor Processing* between January 1900 and August 2018.

	<b>6</b>	Materials Letters
	<b>4</b>	Materials Science in Semiconductor Processing
	<b>2</b>	Materials Science and Engineering B
	<b>2</b>	Crystal Research and Technology
	<b>1</b>	Solid State Communications
	<b>1</b>	Scientific Reports
	<b>1</b>	Intermetallics
	<b>1</b>	Journal of Alloys and Compounds
	<b>1</b>	Journal of Physics and Chemistry of Solids

### Pre-Publication Review List

A list of all verified reviews between January 1900 and August 2018.

	Apr 2018	Journal of Physics and Chemistry of Solids	<i>Effect of sintering process on room temperature ferromagnetism in pure and manganese doped zinc oxide</i>
	Nov 2017	Materials Science in Semiconductor Processing	<i>Nickel mono-silicide formation using a photo-thermal process assisted by ultra-violet laser</i>
	Oct 2017	Materials Science in Semiconductor Processing	<i>Nickel mono-silicide formation using a photo-thermal process assisted by ultra-violet laser</i>
	May 2017	Materials Science and Engineering B	
	Apr 2017	Materials Science and Engineering B	<i>Shape-induced magnetic anisotropy in iron oxide nanosheets with high aspect ratio</i>
	Mar 2017	Materials Letters	<i>Effects of critical particle size on properties and microstructure of porous purging materials</i>
	Feb 2017	Materials Letters	<i>Effects of critical particle size on the properties and microstructure of the porous purging materials</i>
	Jan 2017	Journal of Alloys and Compounds	<i>A Facile growth of spray based ZnO films and device performance investigation for Schottky diode: determination of interface state density distribution</i>
	Jun 2016	Scientific Reports	<i>Fabrication of Silica Nanospheres Coated Membranes: towards the Effective Separation of Oil-in-Water Emulsion in Extremely Acidic and Concentrated Salty Environments</i>
	Nov 2014	Materials Letters	<i>A new partial transient liquid-phase bonding process with powder-mixture interlay for bonding Cf/SiC composite and Ti-6Al-4V alloy</i>
	Oct 2014	Materials Letters	<i>Effect of Si doping on structure, thermal expansion and magnetism of antiperovskite manganese nitrides Mn<sub>3</sub>Cu<sub>1-x</sub>Si<sub>x</sub>N</i>
	Aug 2014	Materials Letters	

*Effect of Si doping on structure, thermal expansion and magnetism of antiperovskite manganese nitrides  $Mn_3Cu_{1-x}Si_xN$*



Aug 2014 Materials Letters

*The Piezoelectric Properties of  $SrBi_4Ti_4O_{15}-Na_{0.5}Bi_{4.5}Ti_4O_{15}$  Solid Solution*



Jul 2013 Materials Science in Semiconductor Processing

*Electronic structure and magnetism in ternary gadolinium-based cubic inverse perovskites*



Feb 2013 Materials Science in Semiconductor Processing

*Electronic structure and magnetism in ternary gadolinium-based cubic inverse perovskites*



Feb 2012 Intermetallics



Oct 2009 Solid State Communications

*Study of phase transitions, electronic structure and optical properties of  $Mg_2Si$  under high pressure*



Aug 2009 Crystal Research and Technology

*Synthesis of Ru microspheres by self-assembly in tungstosilicate acid solution and photocatalytic degradability of Congo red*



Apr 2009 Crystal Research and Technology

*Thermal and EPR investigations of thallium gallium disulphide single crystal*

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## Publication List

A list of all publications authored between January 1900 and August 2018.



Dec 2017 Journal of Alloys and Compounds

*Understanding electronic and magnetic transitions in ball milled diluted magnetic semiconductor  $Si_{1-x}Ni_x$  through experimental electron density distribution*



May 2017 Physica B: Condensed Matter

*Piezoelectric and ferroelectric properties of lead-free  $(1-x)(Na_{1-y}Ky)(Nb_{1-z}Sbz)O_{3-x}BaTiO_3$  solid solution*



Apr 2017 Frontiers of Materials Science

*Electronic structure and bonding interactions in  $Ba_{1-x}Sr_xZr_{0.1}Ti_{0.9}O_3$  ceramics*



Apr 2017 Journal of Superconductivity and Novel Magnetism

*Structural, Magnetic, Optical, and MEM Studies on Co-precipitated  $XZn_{0.4}Fe_{0.6}O_{2(4)}$  ( $X = Co, Mn$ ) Nanoferrite Particles*



Apr 2017 Materials Research Express

*Electronic structure and chemical bonding in  $La_{1-x}Sr_xMnO_3$  perovskite ceramics*



Mar 2017 Journal of Materials Science: Materials in Electronics

*Charge correlation of ferroelectric and piezoelectric properties of  $(1-x)(Na_{0.5}Bi_{0.5})TiO_3-xBaTiO_3$  lead-free ceramic solid solution*



Feb 2017 Journal of Electronic Materials

*Structure and Charge Density Properties of  $(1-x)(Na_{1-y}Ky)(NbO_3)_xBaTiO_3$  Lead-Free Ceramic Solid Solution*



Feb 2017 Journal of Magnetism and Magnetic Materials

*Sintering effect on structural, magnetic and optical properties of  $(Ni_{0.5}Zn_{0.5}Fe_2O_4)-Zn$ -ferrite nano particles*

Jan 2017 Journal unknown

*Bonding in  $La_{0.9}Zn_{0.1}FeO_3$  multiferroic material*

Jan 2017 Journal unknown

*Structural, optical and magnetic properties of  $Ga_{2-x}Fe_xO_3$*

2017 Journal unknown

*Effect of the sintering temperature on the micro structure and optical properties of ZnO ceramics*



2017 Zeitschrift für Naturforschung A: A Journal of Physical Sciences

*Crystal Structure and Bonding Analysis of  $(La_{0.8}Ca_{0.2})(Cr_{0.9-x}Co_{0.1}Cu_x)O_3$  Ceramics*



2017 Journal of Superconductivity and Novel Magnetism

*Study of Various Site Interactions Using Maximum Entropy Method on Mechanically Alloyed  $Ni_{0.5}Zn_{0.5}Fe_2O_4$  Nanoferrite Particles Sintered from 1100 to 1400 degrees C*

2017 Journal unknown

*Charge density analysis and magnetic behavior of Li doped NiO nano structures synthesized by sol-gel process*




Dec 2016 Physica B: Condensed Matter


*Structural, magnetic and optical characterization of  $Ni_{0.8}Zn_{0.2}Fe_2O_4$  nano particles prepared by co-precipitation method*




Nov 2016 Rare Metals

*Charge distribution around Ba–O and Ti–O bonds in BaTi<sub>1-x</sub>Zr<sub>x</sub>O<sub>3</sub> through powder X-ray diffraction*

 Oct 2016 Journal of Chemical Sciences  
*Chemical bonding and charge density distribution analysis of undoped and lanthanum doped barium titanate ceramics*

 Jul 2016 Journal of Materials Science: Materials in Electronics  
*Synthesis and characterization of some ferrite nanoparticles prepared by co-precipitation method*

 Jul 2016 Physica B: Condensed Matter  
*Structural characterization and electron density distribution studies of (La<sub>0.8</sub>Ca<sub>0.2</sub>)(Cr<sub>0.9-x</sub>Co<sub>0.1</sub>Mn<sub>x</sub>)O<sub>3</sub>*

Jun 2016 Journal unknown  
*Synthesis and Charge Density Analysis of BaTiO<sub>3</sub>*

Jun 2016 Journal unknown  
*Synthesis, Characterization and Charge Density Analysis of Lead Free Piezoceramics Na<sub>1-x</sub>K<sub>x</sub>NbO<sub>3</sub>*

Jun 2016 Journal unknown  
*Synthesis, Structure and Magnetic Behavior of Ce-Doped Lanthanum Manganite Ceramics*

Jun 2016 Journal unknown  
*Charge Density Distribution and Bonding in Calcite*

Jun 2016 Journal unknown  
*Charge Density of Al Doped Lanthanum Orthoferrites*

Jun 2016 Journal unknown  
*Chemical Bonding and Charge Density Imaging in Ba<sub>0.2</sub>Sr<sub>0.8</sub>TiO<sub>3</sub> Ceramics by Iterative Entropy Maximization*

Jun 2016 Journal unknown  
*Effects of Cations Substitution on Structural and Magnetic Properties of LaCrO<sub>3</sub> Ceramic Perovskites*


Jun 2016 Journal unknown  
*Inter Bond Experimental Electron Density in Magnesium Ferrite Ceramic (MgFe<sub>2</sub>O<sub>4</sub>) Through XRD*

Jun 2016 Journal unknown  
*Synthesis and Characterization of Al<sub>2</sub>TiO<sub>5</sub>-TiO<sub>2</sub>-Al<sub>2</sub>O<sub>3</sub> Ceramics: Correlation with Charge Density*

Jun 2016 Journal unknown  
*Synthesis and Structural Characterizations of Na<sub>1-x</sub>K<sub>x</sub>Nb<sub>0.95</sub>Sb<sub>0.05</sub>O<sub>3</sub>*


Jun 2016 Journal unknown  
*Synthesis and Characterization of NiFe<sub>2</sub>O<sub>4</sub> Nano Particles Prepared by the Chemical Reaction Method*


 May 2016 Journal of Electronic Materials  
*Preparation and Charge Density in (Co, Fe)-Doped La-Ca-Based Chromite*

 2016 Journal of Materials Science: Materials in Electronics  
*Synthesis and analysis of electron density distribution in Ba<sub>1-x</sub>Sr<sub>x</sub>TiO<sub>3</sub> ceramics*

2016 Journal unknown  
*Electronic Charge Density Distributions in Sb<sub>2</sub>O<sub>3</sub>*


2016 Journal unknown  
*Ferroelectric Charge Ordering in BaTi<sub>0.9</sub>Zr<sub>0.1</sub>O<sub>3</sub> Lead-Free Ceramics through Powder X-Ray Diffraction*


 2016 Journal of Materials Science: Materials in Electronics  
*Structure and charge density of Ce doped gadolinium gallium garnet (GGG)*

 Aug 2015 Journal of Materials Science: Materials in Electronics  
*Structural and magnetic studies on Fe doped zinc oxide, Zn<sub>1-x</sub>Fe<sub>x</sub>O synthesized by solid state reaction*























 May 2015 Journal of Materials Science: Materials in Electronics  
*The redistribution of charge density in CaF<sub>2</sub>:Yb<sup>3+</sup>*

 Mar 2015 Journal of Materials Science: Materials in Electronics  
*Signature of antiferromagnetism in entropy maximized charge density distribution of melt grown diluted magnetic semiconductor Ge<sub>1-x</sub>V<sub>x</sub>*




















 Feb 2015 Materials Science in Semiconductor Processing  
*Magnetic and optical properties of Ti doped ZnO prepared by solid state reaction method*

 Jul 2014 Materials and Manufacturing Processes  
*Structure of Vanadium-Doped Zinc Oxide, Zn<sub>1-x</sub>V<sub>x</sub>O*

 May 2014 Journal of Materials Science  
*Doping-induced electron density modification at lattice sites of ZnO:Ga nanostructures: effects on vibrational and optical properties*

-  Apr 2014 Journal of Materials Science: Materials in Electronics  
*Structure analysis on Ni and V co-doped zinc oxide prepared by solid state reactions*
-  Jan 2014 Materials Science in Semiconductor Processing  
*Structural, magnetic and charge-related properties of nano-sized cerium manganese oxide, a dilute magnetic oxide semiconductor*
-  2014 Journal of Materials Science: Materials in Electronics  
*Solubility of Mn stabilized cubic zirconia nanostructures*
-  2014 Chemical Papers  
*Effect of sintering temperature on the magnetic properties and charge density distribution of nano-NiO*
-  Oct 2013 Journal of Nanoscience and Nanotechnology  
*TiO<sub>2</sub> nanowires grown from nanoparticles: structure and charge density study*
-  Oct 2013 Physica B: Condensed Matter  
*Magnetic and charge derived properties of ball milled dilute magnetic semiconductor Si<sub>0.98</sub>Mn<sub>0.02</sub>*
-  Jun 2013 Phase Transitions  
*Phase analysis in Zn<sub>1-x</sub>CrxO through charge density*
-  Mar 2013 Journal of Materials Science: Materials in Electronics  
*High temperature growth, charge distribution and magnetism in Co and Mn co-doped ZnO*
-  Jan 2013 Journal of Electronic Materials  
*Effect of Co Doping on the Properties of ZnO Bulk Samples*
-  2013 Zeitschrift für Naturforschung A: A Journal of Physical Sciences  
*Solubility Limit of Sol-Gel Grown Nano Zn<sub>1-x</sub>MgxO Through Charge Density Distribution*
-  Dec 2012 Materials Science in Semiconductor Processing  
*Magnetism in melt grown dilute magnetic semiconductor Ge<sub>1-x</sub>Mnx from electron density*
-  Apr 2012 Semiconductors  
*Comparison of electronic structure of as grown and solar grade silicon samples*
-  Feb 2012 Bulletin of Materials Science  
*Analysis on insulator-metal transition in yttrium doped LSMO from electron density distribution*
-  Feb 2012 Physica B: Condensed Matter  
*The analysis on the rearrangement of charge density distribution in response to magnetic behavior in Mn doped SnO<sub>2</sub> nanoparticles*
-  2012 Materials Science Forum  
*Experimental Electronic Structure of the Thermoelectric Materials Bi<sub>2</sub>Te<sub>3</sub> and Sb<sub>2</sub>Te<sub>3</sub>*
-  2012 Materials Science Forum  
*A Theoretical Estimation of the Charge Density Distribution in the Diluted Magnetic Semiconductors of Si<sub>1-x</sub>Mx and Ge<sub>1-x</sub>Mx (M = V, Mn, Co)*
-  2012 Chemical Papers  
*Doping level of Mn in high temperature grown Zn<sub>1-x</sub>MnxO studied through electronic charge distribution, magnetization, and local structure*
- 2012 Journal unknown  
*X-ray studies on PbS*
-  2012 Materials Science Forum  
*Synthesis and Characterization of the Nano Semiconducting Material Cadmium Sulphide*
-  Jul 2011 Physica Status Solidi (a)  
*Local structure determination of the nonlinear optical material LiNbO<sub>3</sub> using XRD*
-  Mar 2011 Journal of Materials Science: Materials in Electronics  
*Charge density in MoO<sub>4</sub> tetrahedron and PbO<sub>8</sub> octahedron in PbMoO<sub>4</sub>*
-  Jan 2011 Materials Science Forum  
*Local Structural Analysis of Al<sub>2</sub>O<sub>3</sub>, Cr:Al<sub>2</sub>O<sub>3</sub> and V:Al<sub>2</sub>O<sub>3</sub> Using Powder XRD*
-  Jan 2011 Materials Science Forum  
*Influence of Silicon and Boron Doping on the Thermal Conductivity of N-GaAs Single Crystals*
-  Jan 2011 Materials Science Forum  
*Synthesis and Electron Density Analysis of SnO<sub>2</sub> Nano Particles*
-  2011 Zeitschrift für Naturforschung A: A Journal of Physical Sciences

Single Crystal Charge Density Studies of Thermoelectric Material Indium Antimonide

-  2011 Crystal Research and Technology  
*Growth and XRD analysis of the diluted magnetic semiconductor Zn<sub>1-x</sub>Ni<sub>x</sub>O*
-  Oct 2010 Indian Journal of Physics  
*Single crystal X-ray analysis of the electronic structure of the thermoelectric material Sn<sub>1-x</sub>Ge<sub>x</sub>Te*
-  Sep 2010 Physica B: Condensed Matter  
*Growth and local structure analysis of ZnS nanoparticles*
-  Jul 2010 Journal of Alloys and Compounds  
*Local distortion in Co-doped LSMO from entropy-maximized charge density distribution*
-  Apr 2010 Physica B: Condensed Matter  
*Localized ferromagnetic charge ordering through charge density analysis in nano sized diluted magnetic semiconductor Co<sub>2+</sub>:ZnO*
-  Jan 2010 Powder Technology  
*Triple phase structure and electron density analysis of the thermoelectric material Bi<sub>80</sub>Sb<sub>20</sub>*
-  Aug 2009 Journal of Physics and Chemistry of Solids  
*Analysis on experimental valence charge density in germanium at RT and 200 K*
-  Jun 2009 Journal of Alloys and Compounds  
*Local structure of the thermoelectric material Mg<sub>2</sub>Si using XRD*
-  Apr 2009 Physica Scripta  
*Practical application of maximum entropy method in electron density and bonding studies*
-  Feb 2009 Journal of Crystal Growth  
*Growth of novel-diluted magnetic semiconducting material Ge<sub>1-x</sub>Mn<sub>x</sub> and X-ray characterization by the maximum entropy method (MEM) and pair distribution function (PDF)*
-  Jan 2009 Journal of Physics and Chemistry of Solids  
*Local structure of the high-temperature thermoelectric material PbTe using the maximum entropy method (MEM) and pair distribution function (PDF)*
-  2009 Zeitschrift für Naturforschung A: A Journal of Physical Sciences  
*Structural Analysis of Al, Ni, and Cu Using the Maximum Entropy Method, Multipole and Pair Distribution Function*
- 2009 Journal unknown  
*Effect of Iron Doping on the Electron Density Distribution in Pure Aluminium*
- 2009 Journal unknown  
*X-ray Analysis of the Charge Density Distribution in GaP at 296 and 200 K Using a Multipole Model and the Maximum Entropy Method*
-  Jul 2008 Pramana  
*Electron density distribution in Si and Ge using multiple, maximum entropy method and pair distribution function analysis*
-  Jul 2008 Defect and Diffusion Forum  
*X-Ray Characterization of Ag Impurities in Na<sub>1-x</sub>Ag<sub>x</sub>Cl*
-  Jan 2008 Journal of Physics and Chemistry of Solids  
*X-ray determination of charge transfer in solar grade GaAs*
-  Nov 2007 Physica B: Condensed Matter  
*Non-nuclear maxima (NNM), symmetric and asymmetric charge distribution in solar grade Si and n-GaAs, using X-ray powder data*
-  Jun 2007 Journal of Physics: Condensed Matter  
*Maximum entropy method and multipole analysis of the bonding in sodium and vanadium metals*
-  Apr 2007 Journal of Alloys and Compounds  
*Bonding in CoAl and NiAl metal alloys using multipole and MEM techniques*
-  Jun 2006 Pramana  
*Application of maximum entropy method for the study of electron density distribution in SrS, BaS and PuS using powder X-ray data*
-  Apr 2006 Bulletin of Materials Science  
*Electron density distribution and bonding in ZnSe and PbSe using maximum entropy method (MEM)*
-  Mar 2006 Crystal Research and Technology  
*Probabilistic electron density distribution in CdTe at RT and 200K*
-  Dec 2005 Bulletin of Materials Science

*Optical, thermal and phase transition studies in Sn<sub>1-x</sub>GexTe*

-  Jun 2005 Physica B: Condensed Matter  
*Bonding in ZnTe at RT, 200 and 100 K revealed by entropy maximized electron density distribution*
-  Oct 2004 Physica B: Condensed Matter  
*Bonding in fluorite compound CaF<sub>2</sub> using MEM*
-  Jun 2004 Physica B: Condensed Matter  
*Electronic structure of InP at RT, 200 and 100K*
-  May 2003 Journal of Physics and Chemistry of Solids  
*An investigation on the bonding in MgO, CaO, SrO and BaO from the MEM electron density distributions*
-  Apr 2003 Journal of Crystal Growth  
*Charge transfer in CdTe at 200 and 300K*
-  Jan 2003 Journal of Physics and Chemistry of Solids  
*Electron density distribution in GaAs using MEM*
-  Jan 2003 Journal of Physics and Chemistry of Solids  
*High resolution electron density mapping for LiF and NaF by maximum entropy method (MEM)*
-  Dec 2002 Crystal Research and Technology  
*Electronic charge distribution in the intermetallic compound MnHg*
-  Aug 2002 Bulletin of Materials Science  
*Experimental  $f''$  of As at 170, 200, 250 and 300 K from the Bijvoet pairs of GaAs*
-  Apr 2002 Physica B: Condensed Matter  
*Raman study on H<sup>+</sup>-implantation effects in highly doped n-GaAs*
-  Jul 2001 Journal of Crystal Growth  
*High resolution electron density distribution determination for GaAs and CdTe*
-  Oct 2000 Acta Crystallographica Section B Structural Science  
*X-ray structure of barium titanate – missed opportunities*
-  Jul 1996 Physica Status Solidi (B)  
*Charge transfer in the bonding of GaAs*
-  Apr 1996 Physica Status Solidi (B)  
*Charge transfer in GaP and InP*
-  1996 Crystal Research and Technology  
*Charge transfer in ZnSe*
-  Aug 1995 Physica Status Solidi (B)  
*TEMPERATURE-DEPENDENCE OF CORE AND VALENCE THERMAL VIBRATIONS IN GERMANIUM*
-  1995 Crystal Research and Technology  
 *$f''$  OF SILICON FROM LINEAR ABSORPTION-MEASUREMENTS*
-  1995 Crystal Research and Technology  
*DEBYE-WALLER FACTORS IN NaXCl<sub>6</sub>*
-  1995 Crystal Research and Technology  
*ON THE ANHARMONIC VIBRATIONS IN CRYSTALLINE SILICON*
-  1995 Crystal Research and Technology  
*X-RAY-INVESTIGATIONS ON THE DEFECT STRUCTURE OF KCl WITH Cd<sup>2+</sup> IMPURITIES*
-  Aug 1994 Physica Status Solidi (B)  
*CORE AND VALENCE THERMAL VIBRATIONS IN DIAMOND, SILICON, AND GERMANIUM*
-  Jun 1994 Physica Status Solidi (B)  
*ANHARMONIC EFFECTS IN GERMANIUM*
-  1994 Crystal Research and Technology  
*ANOMALOUS-DISPERSION CORRECTION TERMS OF AS AND SB*
-  Jan 1992 Acta Crystallographica Section A Foundations of Crystallography  
*ANHARMONIC TEMPERATURE FACTORS, ANOMALOUS-DISPERSION EFFECTS AND BONDING CHARGES IN GALLIUM-ARSENIDE*



Jan 1992 Zeitschrift für Kristallographie - Crystalline Materials  
*AN X-RAY SEARCH FOR ANHARMONICITY IN INDIUM-PHOSPHIDE*



1992 Crystal Research and Technology  
*Experimental Determination of  $\alpha$  for Ga and In From Bijvoet Ratio*

1992 Journal unknown  
*Growth of LiNaSO<sub>4</sub> single crystals from a solution of stoichiometric pH value*



May 1991 Physica Status Solidi (B)  
*INVESTIGATIONS OF BIJVOET DIFFERENCES AND ANHARMONICITY IN GALLIUM-PHOSPHIDE*



Jan 1991 Journal of Physics and Chemistry of Solids  
*Anomalous dispersion effects, anharmonic thermal vibrations and bonding charges in indium antimonide*

1991 Journal unknown  
*Experimental determination of  $\alpha$  for indium by X-ray diffraction*



Nov 1990 Crystal Research and Technology  
*I.R., microhardness and etching studies of Gel-grown rubidium hydrogen tartrate crystals*

Journal unknown  
*Experimental Charge Density - Semiconductors, oxides and fluorides*

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