

Charanjeet Singh

List of Publications by Year in descending order

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102
papers

3,163
citations

126907

33
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161849

54
g-index

109
all docs

109
docs citations

109
times ranked

1879
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Ultrahigh enhancement rate of the energy density of flexible polymer nanocomposites using core-shell BaTiO ₃ @MgO structures as the filler. Journal of Materials Chemistry A, 2020, 8, 11124-11132. | 10.3 | 178 |
| 2 | Significantly enhanced electrostatic energy storage performance of P(VDF-HFP)/BaTiO ₃ -Bi(Li _{0.5} Nb _{0.5})O ₃ nanocomposites. Nano Energy, 2020, 78, 105247. | 16.0 | 151 |
| 3 | Temperature stable Li ₂ Ti _{0.75} (Mg _{1/3} Nb _{2/3}) _{0.25} O ₃ -based microwave dielectric ceramics with low sintering temperature and ultra-low dielectric loss for dielectric resonator antenna applications. Journal of Materials Chemistry C, 2020, 8, 4690-4700. | 5.5 | 142 |
| 4 | Structural, magnetic and dielectric properties of Co-Zr substituted M-type calcium hexagonal ferrite nanoparticles in the presence of γ -Fe ₂ O ₃ phase. Ceramics International, 2018, 44, 17812-17823. | 4.8 | 131 |
| 5 | Preparation and investigation of structure, magnetic and dielectric properties of (BaFe _{11.9} Al _{0.1} O ₁₉) _{1-x} (BaTiO ₃) _x bicomponent ceramics. Ceramics International, 2018, 44, 21295-21302. | 4.8 | 130 |
| 6 | Investigation of AC-Measurements of Epoxy/Ferrite Composites. Nanomaterials, 2020, 10, 492. | 4.1 | 110 |
| 7 | Influence of the dysprosium ions on structure, magnetic characteristics and origin of the reflection losses in the Ni-Co spinels. Journal of Alloys and Compounds, 2020, 841, 155667. | 5.5 | 109 |
| 8 | Structure, spectral analysis and microwave dielectric properties of novel x(NaBi) _{0.5} MoO ₄ -(1-x)Bi _{2/3} MoO ₄ (x = 0.2 to 0.8) ceramics with low sintering temperatures. Journal of the European Ceramic Society, 2020, 40, 3569-3576. | 5.7 | 102 |
| 9 | Ni substitution effect on the structure, magnetization, resistivity and permeability of zinc ferrites. Journal of Materials Chemistry C, 2021, 9, 5425-5436. | 5.5 | 101 |
| 10 | Static magnetic properties of Co and Ru substituted Ba-Sr ferrite. Materials Research Bulletin, 2008, 43, 176-184. | 5.2 | 95 |
| 11 | Hysteresis analysis of Co-Ti substituted M-type Ba-Sr hexagonal ferrite. Materials Letters, 2009, 63, 1921-1924. | 2.6 | 93 |
| 12 | Tunable microwave absorption in Co Al substituted M-type Ba Sr hexagonal ferrite. Materials and Design, 2016, 110, 749-761. | 7.0 | 88 |
| 13 | Elucidation of phase evolution, microstructural, Mössbauer and magnetic properties of Co ₂ +Al ₃ +doped M-type Ba Sr hexaferrites synthesized by a ceramic method. Journal of Alloys and Compounds, 2017, 695, 1112-1121. | 5.5 | 86 |
| 14 | The Effect of Heat Treatment on the Microstructure and Mechanical Properties of 2D Nanostructured Au/NiFe System. Nanomaterials, 2020, 10, 1077. | 4.1 | 72 |
| 15 | An ultra-broadband terahertz metamaterial coherent absorber using multilayer electric ring resonator structures based on anti-reflection coating. Nanoscale, 2020, 12, 9769-9775. | 5.6 | 64 |
| 16 | Structure and magnetodielectric properties of titanium substituted barium hexaferrites. Ceramics International, 2021, 47, 17293-17306. | 4.8 | 64 |
| 17 | Effect of titanium substitution and temperature variation on structure and magnetic state of barium hexaferrites. Journal of Alloys and Compounds, 2021, 859, 158365. | 5.5 | 61 |
| 18 | Investigation of structural, hysteresis and electromagnetic parameters for microwave absorption application in doped Ba-Sr hexagonal ferrites at X-band. Journal of Alloys and Compounds, 2019, 806, 1220-1229. | 5.5 | 58 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | The effect of Co and Zr substitution on dc magnetic properties of Ba ²⁺ /Sr ferrite. Journal of Alloys and Compounds, 2008, 464, 429-433. | 5.5 | 55 |
| 20 | Investigation on structural and microwave absorption property of Co ²⁺ and Y ³⁺ substituted M-type Ba-Sr hexagonal ferrites prepared by a ceramic method. Journal of Alloys and Compounds, 2017, 695, 792-798. | 5.5 | 54 |
| 21 | Changes in the Structure, Magnetization, and Resistivity of Ba _{1-x} Ti _x O ₁₉ . ACS Applied Electronic Materials, 2021, 3, 1583-1593. | 4.3 | 51 |
| 22 | Structural and magnetic properties of Co ²⁺ -W ⁴⁺ ions doped M-type Ba-Sr hexaferrites synthesized by a ceramic method. Journal of Alloys and Compounds, 2017, 695, 909-914. | 5.5 | 49 |
| 23 | Magnetic interactions and dielectric dispersion in Mg substituted M-type Sr-Cu hexaferrite nanoparticles prepared using one step solvent free synthesis technique. Ceramics International, 2018, 44, 4426-4435. | 4.8 | 49 |
| 24 | Microwave characterization of Co ²⁺ -Ti substituted barium hexagonal ferrites in X-band. Journal of Magnetism and Magnetic Materials, 2016, 405, 17-21. | 2.3 | 48 |
| 25 | Exploration of crystal structure, magnetic and dielectric properties of titanium-barium hexaferrites. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2021, 272, 115345. | 3.5 | 46 |
| 26 | Electromagnetic properties of zinc ²⁺ -nickel ferrites in the frequency range of 0.05-10 GHz. Materials Today Chemistry, 2021, 20, 100460. | 3.5 | 43 |
| 27 | Synthesis, characterization, crystal structures and in vitro antimicrobial activities of triorganotin(IV) complexes of azo-dicarboxylates. Inorganica Chimica Acta, 2015, 426, 89-98. | 2.4 | 40 |
| 28 | Investigation of microwave absorption and DC electrical properties of Mn ²⁺ and Ti ⁴⁺ substituted SrMn _{1-x} Ti _x Fe _{12-2x} O ₁₉ ferrite. Journal of Alloys and Compounds, 2016, 683, 302-307. | 5.5 | 39 |
| 29 | Complex permittivity and complex permeability of Sr ions substituted Ba ferrite at X-band. Journal of Magnetism and Magnetic Materials, 2008, 320, 1657-1665. | 2.3 | 38 |
| 30 | Development of doped Ba ²⁺ /Sr hexagonal ferrites for microwave absorber applications: Structural characterization, tunable thickness, absorption peaks and electromagnetic parameters. Journal of Alloys and Compounds, 2021, 855, 157242. | 5.5 | 38 |
| 31 | Microstructure, hysteresis and microwave absorption analysis of Ba _{1-x} Sr _x Fe ₁₂ O ₁₉ ferrite. Materials Chemistry and Physics, 2008, 111, 225-231. | 4.0 | 36 |
| 32 | Thickness and Composition Tailoring of K- and Ka-Band Microwave Absorption of BaCo _x Ti _{1-x} Fe _{12-2x} O ₁₉ Ferrites. Journal of Electronic Materials, 2017, 46, 718-728. | 2.2 | 36 |
| 33 | Influence of Co ⁴⁺ -Ca ²⁺ substitution on structural, microstructure, magnetic, electrical and impedance characteristics of M-type barium ²⁺ -strontium hexagonal ferrites. Ceramics International, 2020, 46, 24816-24830. | 4.8 | 36 |
| 34 | Microwave absorbing characteristics in Co ²⁺ and Al ³⁺ substituted Ba _{0.5} Sr _{0.5} Co _x Al _x Fe _{12-2x} O ₁₉ hexagonal ferrite. Journal of Materials Science: Materials in Electronics, 2017, 28, 2377-2384. | 2.2 | 35 |
| 35 | A study of microwave absorbing properties in Co ²⁺ -Gd doped M-type Ba ²⁺ /Sr hexaferrites prepared using ceramic method. Journal of Materials Science: Materials in Electronics, 2017, 28, 11969-11978. | 2.2 | 33 |
| 36 | Elucidation of microwave absorption mechanisms in Co ²⁺ -Ga substituted Ba ²⁺ /Sr hexaferrites in X-band. Journal of Materials Science: Materials in Electronics, 2018, 29, 14995-15005. | 2.2 | 31 |

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|----|--|------|-----------|
| 37 | Effect of heating temperature on structural, magnetic, and dielectric properties of Magnesium ferrites prepared in the presence of Solanum Lycopersicum fruit extract. Journal of Materials Science: Materials in Electronics, 2020, 31, 18445-18463. | 2.2 | 30 |
| 38 | Anomalous dielectric behaviour during the monoclinic to tetragonal phase transition in $\text{La}(\text{Nb}_{0.9}\text{V}_{0.1})\text{O}_4$. Inorganic Chemistry Frontiers, 2021, 8, 156-163. | 6.0 | 29 |
| 39 | Design and development of Ga-substituted Z-type hexaferrites for microwave absorber applications: Mössbauer, static and dynamic properties. Ceramics International, 2021, 47, 1145-1162. | 4.8 | 29 |
| 40 | Investigation on structural, hysteresis, Mössbauer properties and electrical parameters of lightly Erbium substituted X-type $\text{Ba}_2\text{Co}_2\text{Er}_{28}\text{O}_{46}$ hexaferrites. Ceramics International, 2020, 46, 8209-8226. | 4.8 | 27 |
| 41 | Microwave and electrical behavior of Co^{2+} and Ru^{4+} ions substituted Ba-Sr sintered ferrite. Journal of Electroceramics, 2011, 27, 120-125. | 2.0 | 25 |
| 42 | Effects of CaTiO_3 addition on the microwave dielectric properties and antenna properties of BiVO_4 ceramics. Composites Part B: Engineering, 2019, 175, 107122. | 12.0 | 25 |
| 43 | Interface magnetoelectric effect in elastically linked Co/PZT/Co layered structures. Journal of Magnetism and Magnetic Materials, 2019, 485, 291-296. | 2.3 | 22 |
| 44 | Temperature-Stable $(\text{Na}_{0.5}\text{Bi}_{0.5})\text{MoO}_4 \cdot (\text{Na}_{0.5}\text{Bi}_{0.5})\text{MoO}_3$ Composite Ceramics with Ultralow Sintering Temperatures and Low Dielectric Loss for Dielectric Resonator Antenna Applications. ACS Applied Electronic Materials, 2021, 3, 2286-2296. | 4.3 | 22 |
| 45 | Microwave and electrical characterization of M-type $\text{Ba}_{0.5}\text{Sr}_{0.5}\text{Co}_x\text{Ru}_x\text{Fe}_{(12-2x)}\text{O}_{19}$ hexaferrite for practical applications. Solid State Communications, 2015, 201, 72-75. | 1.9 | 20 |
| 46 | Sol-gel auto-combustion synthesis of double metal-doped barium hexaferrite nanoparticles for permanent magnet applications. Journal of Solid State Chemistry, 2022, 312, 123215. | 2.9 | 19 |
| 47 | Microwave absorption characteristics of substituted $\text{Ba}_{0.5}\text{Sr}_{0.5}\text{M}_x\text{Fe}_{(12-2x)}\text{O}_{19}$ ($\text{M} = \text{Co}^{2+}, \text{Zr}^{4+}$ AND $\text{Co}^{2+}, \text{Ti}^{4+}$) sintered ferrite at X-band. Microwave and Optical Technology Letters, 2012, 54, 1661-1665. | 1.4 | 18 |
| 48 | Schottky-Richardson, Poole-Frenkel, and Space Charge Limited Current Mechanisms in M-Type $\text{Sr}(\text{MnTi})_x\text{Fe}_{(12-2x)}\text{O}_{19}$ Ferrite. Journal of the American Ceramic Society, 2016, 99, 3639-3644. | 3.8 | 16 |
| 49 | Dielectrical and structural studies of composite matrix $\text{BiVO}_4 \cdot \text{CaTiO}_3$ and temperature effects by impedance spectroscopy. Journal of Materials Science: Materials in Electronics, 2018, 29, 16248-16258. | 2.2 | 16 |
| 50 | Effects of Pr-Al co-substitution on the magnetic and structural properties of M-type Ca-Sr hexaferrites. Chinese Journal of Physics, 2020, 63, 337-347. | 3.9 | 16 |
| 51 | Active control scattering manipulation for realization of switchable EIT-like response metamaterial. Optics Communications, 2021, 483, 126664. | 2.1 | 16 |
| 52 | Tailoring of Electromagnetic Absorption in Substituted Hexaferrites from 8.2 GHz to 12.4 GHz. Journal of Electronic Materials, 2020, 49, 1646-1653. | 2.2 | 15 |
| 53 | Improvisation of optimization technique and AODV routing protocol in VANET. Materials Today: Proceedings, 2022, 49, 3457-3461. | 1.8 | 15 |
| 54 | Effect of Copper Substitution on the Structural, Magnetic, and Dielectric Properties of M-Type Lead Hexaferrite. Journal of Electronic Materials, 2020, 49, 6024-6039. | 2.2 | 14 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 55 | Investigation on barometric and hydrostatic pressure sensing properties of Pb[(Mg ^{1/3} Nb ^{2/3}) _{0.7} Ti _{0.3}]O ₃ electro-ceramics. <i>Ceramics International</i> , 2021, 47, 6982-6987. | 4.8 | 14 |
| 56 | A novel ceramic matrix composite based on YNbO ₄ –TiO ₂ for microwave applications. <i>Ceramics International</i> , 2021, 47, 15424-15432. | 4.8 | 14 |
| 57 | Structural, morphological, magnetic hysteresis and dielectric properties of cobalt substituted barium–lead hexagonal ferrites for technological applications. <i>Ceramics International</i> , 2021, 47, 27441-27452. | 4.8 | 13 |
| 58 | Low sintering temperature, temperature-stable scheelite structured Bi[V ^{1-x} (Fe ^{1/3} W ^{2/3}) _x]O ₄ microwave dielectric ceramics. <i>Journal of the European Ceramic Society</i> , 2022, 42, 5731-5737. | 5.7 | 12 |
| 59 | High thermal stability and colossal permittivity of novel solid solution LaFeO ₃ /CaTiO ₃ . <i>Materials Chemistry and Physics</i> , 2021, 257, 123239. | 4.0 | 10 |
| 60 | Multiferroic properties of GdFe _{0.9} M _{0.1} O ₃ (M = Ag ¹⁺ , Co ²⁺ and Cr ³⁺) nanoparticles and evaluation of their antibacterial activity. <i>European Physical Journal Plus</i> , 2022, 137, 1. | 2.6 | 10 |
| 61 | Optimization of Performance Parameters of Doped Ferrite-Based Microwave Absorbers: Their Structural, Tunable Reflection Loss, Bandwidth, and Input Impedance Characteristics. <i>IEEE Transactions on Magnetics</i> , 2021, 57, 1-19. | 2.1 | 8 |
| 62 | Controllable morphology, dielectric, magnetic and reflection loss characteristics of ferrite/wax composites for low-loss applications. <i>Journal of Alloys and Compounds</i> , 2021, 888, 161611. | 5.5 | 7 |
| 63 | Electromagnetic properties of Co-Zr substituted Ba-Sr ferrite-paraffin wax composite for EMC/EMI applications. , 2011, , . | | 6 |
| 64 | Microwave and electrical properties of Co-Ti substituted M-type Ba hexagonal ferrite. <i>European Physical Journal B</i> , 2015, 88, 1. | 1.5 | 6 |
| 65 | Microwave absorption characteristics of Co ²⁺ and W ⁴⁺ substituted M-type Ba _{0.5} Sr _{0.5} Co _x W _x Fe _{12-2x} O ₁₉ hexagonal ferrites. <i>Journal of Materials Science: Materials in Electronics</i> , 2017, 28, 228-235. | 2.2 | 6 |
| 66 | Bandstop Passive Filter Characteristics of Hexagonal Ferrite Composites at X-Band. <i>Journal of Electronic Materials</i> , 2019, 48, 6189-6193. | 2.2 | 6 |
| 67 | Implementation of K-Means Algorithm and Dynamic Routing Protocol in VANET. <i>Computer Systems Science and Engineering</i> , 2022, 40, 455-467. | 2.4 | 6 |
| 68 | Structural phases, magnetic properties and Maxwell–Wagner type relaxation of CoFe ₂ O ₄ /Sr ₂ Co ₂ Fe ₁₂ O ₂₂ ferrite composites. <i>Materials Research Express</i> , 2017, 4, 076105. | 1.6 | 5 |
| 69 | Study of Physical Properties of Co Substituted GdFeO ₃ Orthoferrites and Evaluation of Their Antibacterial Activity. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2020, 30, 4320-4328. | 3.7 | 5 |
| 70 | Online Learning Using Multiple Times Weight Updating. <i>Applied Artificial Intelligence</i> , 2020, 34, 515-536. | 3.2 | 5 |
| 71 | Polarization controlled resistive switching in bulk ferroelectric ceramics: A universal phenomenon. <i>Journal of Alloys and Compounds</i> , 2021, 887, 161345. | 5.5 | 5 |
| 72 | Role of phase, grain morphology and impedance properties in tailoring of Barium Strontium hexaferrites for microwave absorber/attenuator applications. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2022, 281, 115679. | 3.5 | 5 |

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|----|---|-----|-----------|
| 73 | Fabrication of highly sensitive 4-Nitrophenol sensor and photocatalytic performance of multifunctional Ba _{0.5} Sr _{0.5} Co _x Hf _x Fe _{12-2x} O ₁₉ Ferrite. Materials Chemistry and Physics, 2022, 288, 126396. | 4.0 | 5 |
| 74 | Investigation of microwave and electrical characteristics of Co ²⁺ Zr substituted M-type Ba ²⁺ Sr hexagonal ferrite. Materials Science-Poland, 2015, 33, 335-339. | 1.0 | 4 |
| 75 | Development of Co _{0.7} Ca _{0.3} Fe ₂ O ₄ -EPDM nanocomposite for microwave application: Their rheometric behavior, surface topography and electromagnetic parameters. Ceramics International, 2021, 47, 7285-7290. | 4.8 | 4 |
| 76 | High-bandwidth microwave dielectric resonator antennas from BiVO ₄ /ZnO composites. Journal of the Australian Ceramic Society, 2021, 57, 369-377. | 1.9 | 4 |
| 77 | Crystal Structure, Magnetic Properties and Thermal Behavior of BaFe _{11.9} In _{0.1} O ₁₉ Ferrite. Physica Status Solidi (B): Basic Research, 2022, 259, . | 1.5 | 4 |
| 78 | Microwave Characterization of Pb _{0.45} Ca _{0.55} (Fe _{0.5} Nb _{0.5}) _{1-x} Sn _x O ₃ Multiferroics at X-Band. Journal of Electronic Materials, 2016, 45, 4908-4912. | 2.2 | 3 |
| 79 | Performance Enhancement for Hybrid WDM-TDM Passive Optical Networks. Indian Journal of Science and Technology, 2017, 10, 1-7. | 0.7 | 3 |
| 80 | Complex permittivity and complex permeability characteristics of Co ²⁺ Ti doped barium strontium hexaferrite/paraffin wax composites for application in microwave devices. Applied Physics A: Materials Science and Processing, 2020, 126, 1. | 2.3 | 3 |
| 81 | Enhanced ferroelectric polarization in epitaxial superconducting ²⁺ ferroelectric heterostructure for non-volatile memory cell. AIP Advances, 2020, 10, . | 1.3 | 3 |
| 82 | Modified online Newton step based on elementwise multiplication. Computational Intelligence, 2020, 36, 1010-1025. | 3.2 | 2 |
| 83 | High thermal stability of RF dielectric properties of BiVO ₄ matrix with added ZnO. Journal of Materials Science: Materials in Electronics, 2020, 31, 13078-13087. | 2.2 | 2 |
| 84 | A Heavy Load Optimized Dynamic Bandwidth Allocation Algorithm for Hybrid WDM/TDM VPONs. Journal of Optical Communications, 2021, 42, 159-163. | 4.7 | 2 |
| 85 | Microwave absorption studies of M-type Ba _{0.5} Sr _{0.5} Co _x Ti _x Fe _(12-2x) O ₁₉ ferrite and its dependence on static properties. , 2012, , . | | |
| 86 | Static conduction mechanisms in Co ²⁺ and Ti ⁴⁺ substituted M-type SrCo _x Ti _x Fe _(12-2x) O ₁₉ ferrite. European Physical Journal B, 2015, 88, 1. | 1.5 | 1 |
| 87 | Static current models in Co ²⁺ and Ti ⁴⁺ substituted M-type CaCo _x Ti _x Fe _(12-2x) O ₁₉ ferrite. European Physical Journal B, 2015, 88, 1. | 1.5 | 1 |
| 88 | Investigation of microwave characteristics of Ca-Co-Ti ferrite for electromagnetic applications. , 2015, , . | | 1 |
| 89 | Wideband and Narrowband Microwave Characteristics of Co/Ti-Substituted M-Type Ca-Hexagonal Ferrite. Journal of Electronic Materials, 2017, 46, 866-871. | 2.2 | 1 |
| 90 | The Effects of TiO ₂ Addition on the Dielectric and Microwave Properties in the Ceramic Matrix BiVO ₄ . , 2018, , . | | 1 |

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|-----|---|-----|-----------|
| 91 | Microwave filter characteristics of ferrite and polyaniline composites from 8.2 to 12.4 GHz. Journal of Materials Science: Materials in Electronics, 2019, 30, 14923-14927. | 2.2 | 1 |
| 92 | A review of online supervised learning. Evolving Systems, 2023, 14, 343-364. | 3.9 | 1 |
| 93 | Investigation of DC current models in Co ²⁺ and Ti ⁴⁺ substituted M-type BaCo _x Ti _x Fe _(12-2x) O ₁₉ ferrite. European Physical Journal B, 2015, 88, 1. | 1.5 | 0 |
| 94 | AC and DC properties of M-type SrCo _x Ti _x Fe _(12-2x) O ₁₉ hexagonal ferrite. European Physical Journal B, 2015, 88, 1. | 1.5 | 0 |
| 95 | Microwave characterization of Pb ^{1-x} CoxFe _{0.5} Nb _{0.5} O ₃ multiferroics at X-band. European Physical Journal B, 2015, 88, 1. | 1.5 | 0 |
| 96 | Thermoelectric and electrical properties of Ba _{0.5} Sr _{0.5} Co _x Ru _x Fe _(12-2x) O ₁₉ ferrite*. European Physical Journal B, 2016, 89, 1. | 1.5 | 0 |
| 97 | Investigation of Microwave Absorption in Co-W Doped Ba-Sr Hexaferrite. , 2018, , . | | 0 |
| 98 | Energy Efficient Hybrid Technique Based on Dynamic Clustering in Wireless Sensor Network. , 2018, , . | | 0 |
| 99 | Qualitative Analysis of Microwave Absorption for Indium Doped M-Type Hexagonal Ferrite (Ba _{0.5} Sr _{0.5} Co _x In _x Fe _{12-2x} O ₁₉) in X-Band. , 2018, , . | | 0 |
| 100 | Microwave Attenuation of Cobalt-Tin Substituted Barium-Strontium Hexagonal Ferrite. , 2018, , . | | 0 |
| 101 | Investigation of Shielding Effectiveness of M-Type Ba-Co-Ti Hexagonal Ferrite and Composite Materials in Microwave X-Band Systems. , 0, , . | | 0 |
| 102 | Method of Surface Energy Investigation for Nanostructured Materials: Application to Control NiFe Films Growth Mechanism. SSRN Electronic Journal, 0, , . | 0.4 | 0 |